

User Guide



19"/22" LED-LCD HDTV

NS-19E450A11/NS-19E450WA11/NS-22E450A11/NS-22E455C11



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CHILD SAFETY

It makes a difference how and where you use your flat panel display

As you enjoy your new product, keep these safety tips in mind

The issue

The home theater entertainment experience is a growing trend, and larger TVs are popular purchases. However, TVs are not always supported on the proper stands or installed according to the manufacturer's recommendations. We and the consumer electronics industry are committed to making home entertainment enjoyable and safe.

TVs that are inappropriately placed on dressers, bookcases, shelves, desks, speakers, chests, or carts may fall over and cause injury.

Tune into safety

- One size of TV stand does **not** fit all. Use only a TV stand rated for the weight of your TV.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't let children climb on or play with entertainment system furniture and TVs.
- Don't place TVs on furniture that can easily be used as steps, such as a crate or chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger-than-life" TV. Make sure that you place or install the TV where it cannot be pushed, pulled over, or knocked down.
- Make sure that you route all cords and cables so that they cannot be pulled or grabbed by curious children.



Wall mounting

If you decide to wall mount your TV, always remember:

- One size of wall mount does **not** fit all. Use only a wall mount rated for the weight of your TV and that has been recommended by this TV manufacturer, listed in this manual, or otherwise listed by an independent laboratory as suitable for your TV.
- Follow all instructions supplied by the TV and wall mount manufacturers.
- If you have any doubts about your ability to safely wall mount your TV, get help from a professional installer.
- Make sure that the wall where you are mounting the TV is appropriate. Some wall mounts are not designed to be mounted to walls backed with steel studs or cinder blocks. If you are unsure, ask a professional installer.
- TVs can be heavy. At least two people are required for safe wall mount installation.




Important safety instructions



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your TV. This label is located on the back of your TV.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your TV.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with a dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.  S3125A
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- 15 The *wall plug* is the disconnecting device. The plug must remain readily operable.
- 16 An apparatus with three-prong, grounding-type plug is a Class I apparatus. Class I apparatus which needs to be grounded to prevent possible electric shock. Make sure that you connect the Class I apparatus to a grounding-type, three-prong outlet.
- 17 Remote control batteries should not be exposed to excessive heat such as sunshine, fire, or the like.
- 18 The apparatus should not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, should be placed on the apparatus.

Warnings

Electric shock hazard

To reduce the risk of fire or electric shock, do not remove any cover or expose the device to rain or moisture. No user-serviceable parts are inside. Refer servicing to qualified service technicians.

Lightning

For added protection for your device receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the power outlet and disconnect any antenna or cable system. This helps prevent property damage and personal injury from lightning and power line surges.

Power lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Handling the LCD panel

- Your TV's screen is made of glass. Do not drop your TV or hit, jolt, or press hard against the LCD panel. If the screen breaks, be careful of broken glass.
- If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.
- If the liquid gets in your mouth, immediately gargle, rinse, and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

Replacement parts

When replacement parts are required, make sure that the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, personal injury, or other hazards.

Safety check

After completing any service or repair to this device, ask the service technician to perform routine safety checks to determine that your TV is in correct operating condition.

Power source

Operate your TV only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult an electrician or your local power company.

Cautions

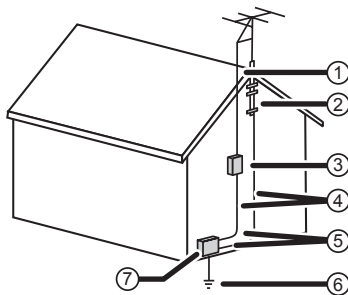
Damage requiring service

Unplug this TV from the power outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged or frayed.
- If liquid has been spilled or objects have fallen into your TV.
- If your TV has been exposed to rain or water.
- If your TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore your TV to its normal operation.
- If your TV has been dropped or damaged in any way.
- When your TV exhibits a distinct change in performance.

Outdoor antenna grounding

If an outside antenna or cable system is connected to your TV, make sure that the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to correct grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- 1 Antenna lead-in wire
- 2 Grounding clamp
- 3 Antenna discharge unit
- 4 Grounding conductors
- 5 Ground clamps
- 6 Power service grounding electrode system
- 7 Electric service equipment

Note to CATV system installer

Article 820 of the National Electrical Code, ANSI/NFPA No. 40 provides guidance for correct grounding. Specifically, it states that the cable ground must be connected to the grounding system of the building as close to the point of cable entry as practical.

Condensation

Moisture will form on the TV if the TV is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the TV's performance may be impaired. To prevent this, let the TV stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the TV is exposed to the breeze from an air conditioner. In such cases, change the location of the TV.

Mobile telephone warning

To avoid interference with your TV picture and sound, operating problems, or even damage, keep your cordless and cellular telephones away from the TV.

End of life directives

Your TV contains tin-lead solder and a fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated for environmental reasons. Your TV also contains material that can be recycled and reused. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance at www.eia.org to find a recycler in your area.

Non-active pixels

The LCD panel contains almost 3 million thin film transistors, which provide exceptionally sharp video quality. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green, or red point. These non-active pixels do not adversely affect the performance of your TV, and are not considered defects.

Insignia 19"/22" LED-LCD HD TV

Introduction

Congratulations on your purchase of a high-quality Insignia product. Your NS-19E450A11, NS-19E450WA11, NS-22E450A11, or NS-22E455C11 represents the state of the art in LED-LCD TV design and is designed for reliable and trouble-free performance.

AUDYSSEY Dynamic Volume plus Dynamic EQ:

Have you ever caught yourself wishing that you didn't constantly need to adjust the volume: wishing that the commercials wouldn't blare and that you could better hear whispering during a movie scene? Audyssey Dynamic Volume is a feature that lets you put the remote control down and enjoy your show while Audyssey adjusts the sound levels for you automatically. Audyssey Dynamic EQ is a feature that automatically finds the richest sound settings-including enhanced bass-for each scene, even when the volume level is held steady, making the sound coming from your TV speakers sound more lifelike. See page 18 for instructions on how to adjust the audio settings to take advantage of Audyssey.

SRS TruSurround HD:

At Insignia, providing you with superior audio quality is just as important as exceptional picture quality. That's why we added SRS TruSurround HD, which provides you with a theater-like surround-sound experience, with the clearer dialog and the enhanced bass sounds that movie viewers and gamers crave.

INlink:

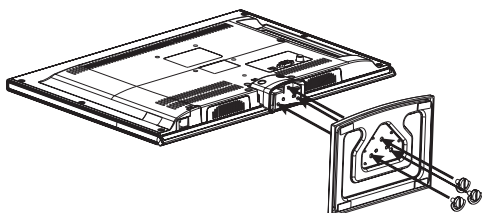
Enjoy the benefit of having HDMI CEC compatible products plug and play! No setup is needed! CEC technology lets different components discover and communicate with each other. (See page 31 for instructions on how to use INlink)

Install the stand or wall-mount bracket

Installing the stand

To install the stand:

- 1 Carefully place your TV screen face-down on a cushioned, clean surface to protect the screen from damages and scratches.
- 2 Secure the stand to the screen with the three provided screws.



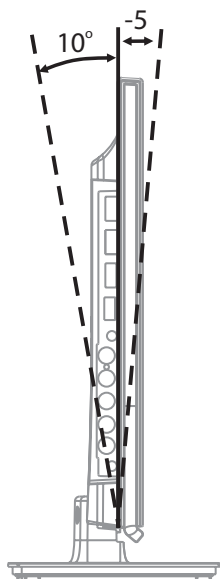
Adjusting the viewing angle

Caution

When adjusting the viewing angle, be careful not to tip over your TV.

To adjust the viewing angle:

- Tilt the screen forward 5° or backward 10°.



Installing a wall-mount bracket

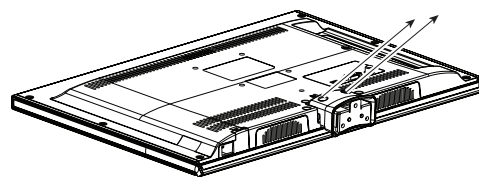
Note

To avoid interference between the jacks, wall-mount bracket, and wall, the wall-mount bracket must be more than 40 mm thick, and the RF or VGA cable must have a 90-degree plug.

To attach your TV to a wall-mount bracket:

- 1 Carefully place your TV screen face-down on a cushioned, clean surface to protect the screen from damages and scratches.

- 2 Remove the two screws holding the TV to its stand column.



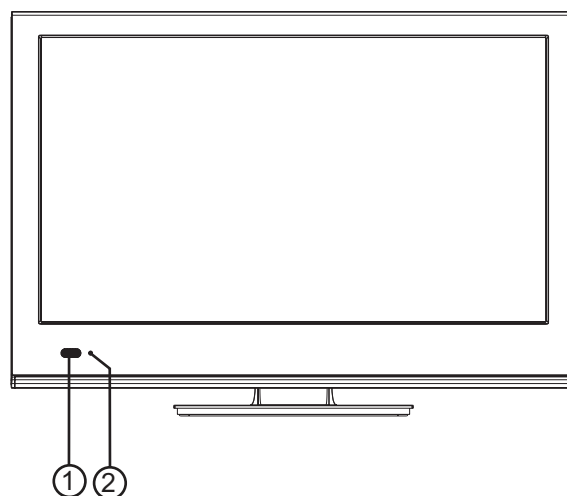
- 3 Remove the stand column.
- 4 Secure the wall-mount bracket to the back of your TV using the four M4 screws provided with bracket.

TV components

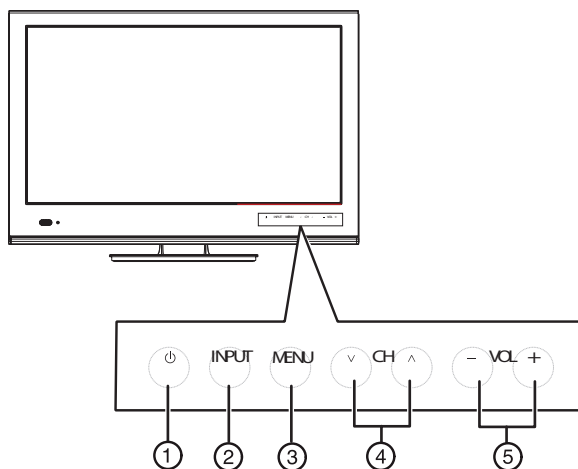
Accessories

- Remote control
- Remote control holder
- Batteries (2 AAA)
- Component cable
- Audio cable
- Cleaning cloth
- TV stand and screws
- *Quick Setup Guide*

Front



#	Item	Description
①	Remote control sensor	Receives signals from the remote control. Do not block.
②	Power indicator	Lights blue when your TV is turned on. Lights red when your TV is in standby mode. Turns off when the power cord is unplugged.



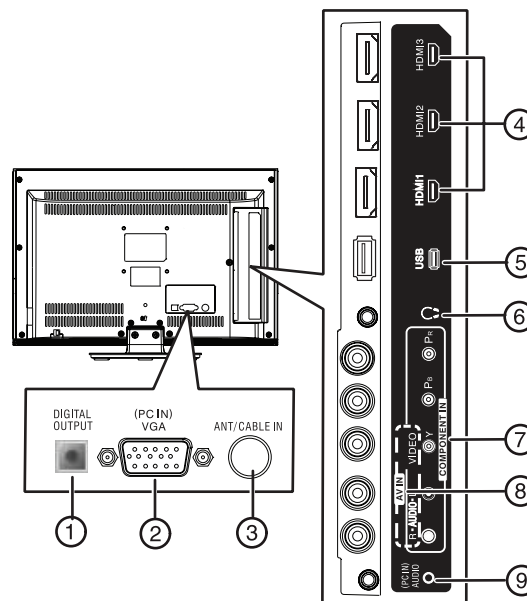
Note

To turn on your TV using the (power) button on your TV, press . Your TV turns on and the button labels (, **INPUT**, **MENU**, **CH** /**CH** , and **VOL+**/**VOL-**) light on the front of your TV. A "Please Wait" message appears for a few seconds, then your TV displays the normal TV broadcast.

If your TV is turned on and the button labels on the front of your TV are not lit, press any button except to light the button labels. Then press the button you want. Button presses must be within 10 seconds of each other.

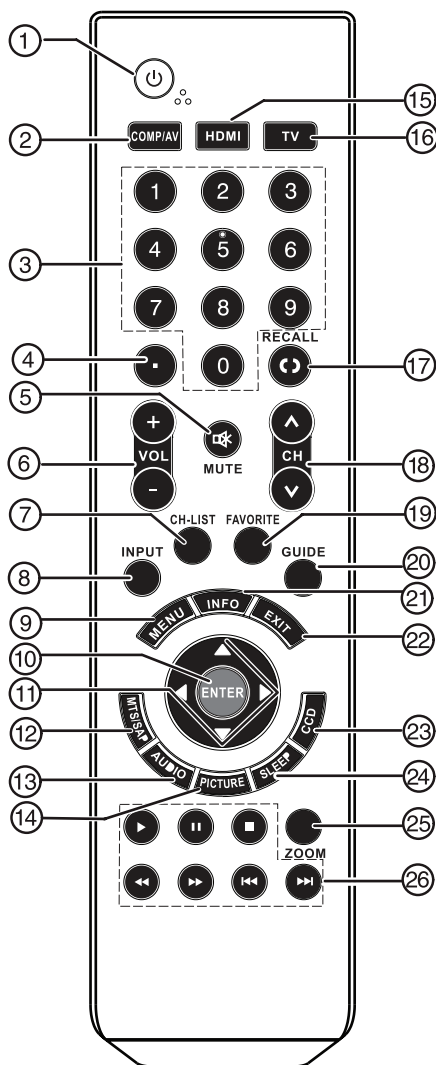
#	Item	Description
①	(power)	Press to turn on your TV. Press again to put your TV in standby mode. When your TV is in standby mode, power still flows through it. To completely disconnect power, unplug the power cord.
②	INPUT	Press to select the video input source.
③	MENU	Press to open the on-screen menu.
④	CH /CH	Press to go to the next or previous channel in the channel list.
⑤	VOL -/VOL +	Press to decrease or increase the volume.




Back







#	Item	Description
①	DIGITAL OUTPUT	Connect a digital optical sound system to this jack to send the TV audio through the sound system. For more information, see "Connecting a digital sound system" on page 13.
②	PC IN VGA	Connect the video for a computer to this jack. For more information, see "Connecting a computer" on page 12.
③	ANT/CABLE IN	Connect an antenna, cable TV, or satellite TV box to this jack. For more information, see "Connecting an antenna or cable TV without a cable box" on page 9.
④	HDMI1/HDMI2/HDMI3	Connect an HDMI devices to this jacks. An HDMI cable carries both video and sound. You do not need to make an audio connection for an HDMI device. For more information, see "Connecting an HDMI device" on page 10.
⑤	USB	Connect a USB device, such as USB flash drive, to this jack. For more information, see "Connecting a USB device" on page 12.
⑥	(headphone)	Connect headphones to this jack. For more information, see "Connecting headphones" on page 13.
⑦	COMPONENT IN	Connect the video for a component video device to these jacks. For more information, see "Connecting a component video device" on page 11.
⑧	AV IN VIDEO and L/R AUDIO	Connect a composite video device, such as a VCR, to these jacks. For more information, see "Connecting a VCR" on page 11.
⑨	PC IN AUDIO	Connect the audio for a computer or DVI device to this jack. For more information, see "Connecting a computer" on page 12.

Remote control



#	Button	Description
①	 (power)	Press to turn on your TV. Press again to put your TV in standby mode. When your TV is in standby mode, power still flows through it. To completely disconnect power, unplug the power cord.
②	COMP/AV	Press to select the device connected to the COMPONENT IN or AV IN VIDEO jacks as the video input source.
③	Numbers	Press to enter channel numbers or the parental control password.
④		Press to select a digital sub-channel. For more information, see "Selecting a channel" on page 16.
⑤	 MUTE	Press to turn off the sound. Press again to turn the sound back on.
⑥	VOL+/VOL-	Press to increase or decrease the volume.
⑦	CH-LIST	Press to display the channel list.
⑧	INPUT	Press to open the <i>Input Source</i> list. For more information, see "Selecting the video input source" on page 15.
⑨	MENU	Press to open the on-screen menu.
⑩	ENTER	Press to open a sub-menu or to confirm selections in the on-screen menus. For more information, see "Navigating the menus" on page 16.

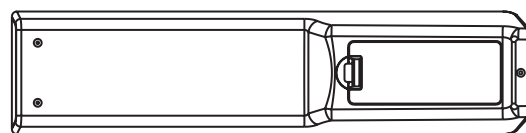
#	Button	Description
⑪		Press to navigate in on-screen menus. For more information, see "Navigating the menus" on page 16.
⑫	MTS/SAP	Press to select the audio mode for an analog channel. Press to select the audio track for a digital channel if more than one audio track is available. For more information, see "Selecting the audio mode" on page 19.
⑬	AUDIO	Press repeatedly to toggle between the bass and treble settings screens where you can adjust the settings.
⑭	PICTURE	Press to select the picture mode. For more information, see "Adjusting the TV picture" on page 17.
⑮	HDMI	Press once to select the device connected to the HDMI1 jack as the video input source. Press twice to select the device connected to the HDMI2 jack. Press three times to select the device connected to the HDMI3 jack.
⑯	TV	Press to select the TV as the video input source.
⑰	 RECALL	Press to go to the last viewed channel.
⑱	CH  /CH 	Press to go to the previous or next channel in the channel list. For more information, see "Selecting a channel" on page 16.
⑲	FAVORITE	Press to open the favorite channel list. For more information, see "Viewing a favorite channel" on page 21.
⑳	GUIDE	Press to open the program guide for digital channels (if available). For more information, see "Viewing channel information" on page 16.
㉑	INFO	Press to display the channel banner. For more information, see "Viewing channel information" on page 16.
㉒	EXIT	Press to close the on-screen menu.
㉓	CCD	Press to turn closed captioning on or off. For more information, see "Turning closed captioning on or off" on page 27.
㉔	SLEEP	Press to set the sleep timer. For more information, see "Setting the sleep timer" on page 29.
㉕	ZOOM	Press to select the aspect ratio. For more information, see "Adjusting the TV picture" on page 17.
㉖	INlink control buttons	Press to control INlink devices. For more information, see "Using INlink" on page 31.

Using the remote control

Installing remote control batteries

To install the remote control batteries:

- 1 While pressing the release button on the battery compartment cover on the back of the remote, lift the cover off the remote.



- 2 Insert two AAA batteries into the battery compartment. Make sure that the + and - symbols on the batteries align with the + and - symbols in the battery compartment.

3 Replace the cover.

Warnings

- Batteries should not be exposed to excessive heat, such as sunshine, heat registers, or fire.
- Battery chemicals can cause a rash. If the batteries leak, clean the battery compartment with a cloth. If chemicals touch your skin, wash immediately.
- Make sure that batteries are disposed of correctly. Do not burn or incinerate.

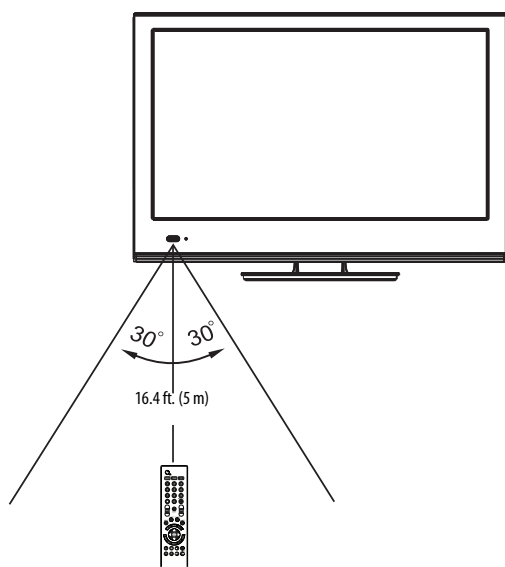
Notes

- Do not mix batteries of different types.
- Do not mix old and new batteries.
- Remove batteries when the charge is depleted.
- If the remote control is not going to be used for an extended period of time, remove the batteries.

Aiming the remote control

To aim the remote control:

- Point the remote control toward the remote control sensor on the front of your TV.

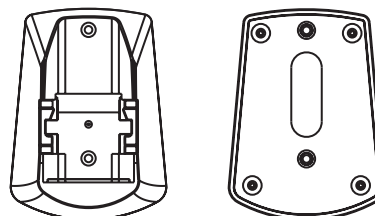


Notes

- Do not expose the remote control to shock.
- Do not expose the remote control to liquids and do not use the remote control in an area with high humidity.
- Do not place the remote control in areas of high heat or direct sunlight. The heat may warp the battery case.
- The remote control may not work correctly if sunlight or bright light is shining on the remote control sensor. To correct this problem, move your TV or use the remote control closer to the remote control sensor.

Using the remote control holder

Your TV comes with a remote control holder you can put the remote control in when you are not using it. You can put the holder on a table or mount it on a wall.



Note

Different types of walls may require different types of screws. If you want to wall mount the remote control holder, make sure that you use the correct screws for the type of wall. (Screws are not provided.)

Programming your existing universal remote control to work with your TV

You can operate your Insignia TV with a new or existing universal remote control.

To program a universal remote control:

- 1 See the table below for common codes. If you have problems programming your remote or need a different remote control code, visit www.insigniaproducts.com for the latest remote control code information.

Insignia TV codes for universal remote controls (for all Insignia TVs manufactured after Jan. 1, 2007)

Universal remote control makes and models

Philips PHDVD5, PH5DSS, PMDVR8, PDVR8	RCA RCU807	One for All URC-6690	Sony RM-VL600	
115	135	0464	8043	

Set-top box makes and models

Comcast M1057	Dish Network VIP508, VIP622	Motorola DRC800	TIVO Series 3, HD	DirectTV RC23
0463	720	0463	0091	10463

Codes for other remote controls are available online at:

www.insigniaproducts.com

Tips

- The brand name is often visible on the front of the universal remote control, and the model number is often visible on the back.
- If your universal remote control isn't listed on the chart, refer to your universal remote control's instructions and try codes for the brands Orion, Emerson, Memorex, Sansui, Sylvania, or Zenith. You may need to try several codes before finding a match.

- Follow your universal remote control's instructions to enter the TV code you found in Step 1.

Tips

- If your universal remote control has a code search feature, run a code search to identify a code that matches your TV. See your universal remote control's instructions for details.
- If your universal remote control has a "Learn" feature, you can manually program it using the Insignia TV remote to "teach" the commands one at a time. See your universal remote control's instructions for details.

- If all else fails, you must use a different universal remote control that can operate both your set-top box and your TV. Four such remotes are listed on the chart, but many other compatible models are available in the market.

For more help, go to insigniaproducts.com or call technical support for your universal remote control or set-top box manufacturer, or call the Insignia Customer Care Center. For US and Canada markets, call 1-877-467-4289. For Mexico markets, call 01 800-926-3000.

Making connections

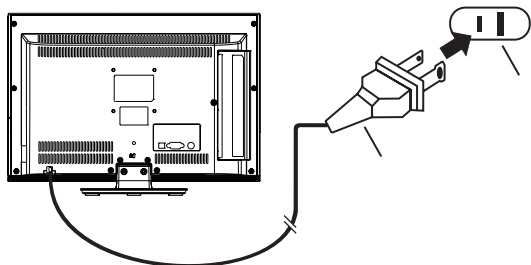
Cautions

- Check the jacks for position and type before making any connections.
- Loose connections can result in image or color problems. Make sure that all connections are tight and secure.
- The external audio/video equipment shown may be different from your equipment. If you have questions, refer to the documentation that came with your equipment.
- Always unplug the power cord when connecting external equipment.

Connecting power

To connect the power:

- Plug the AC power cord into a power outlet.



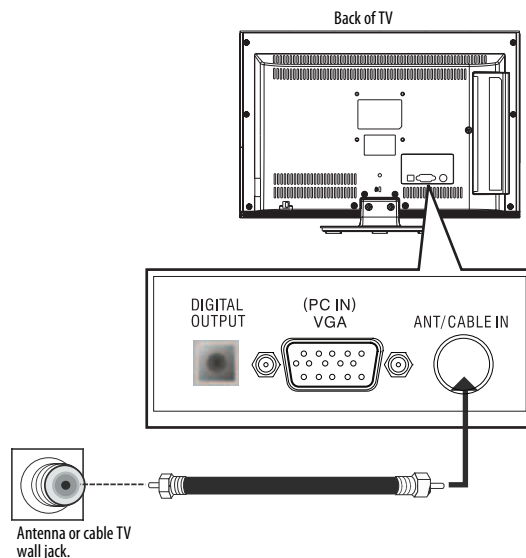
Notes

- Your TV should only be operated from the power source indicated on the label.
- Always unplug the AC power cord from the power outlet when you will not be using your TV for an extended period of time.

Connecting an antenna or cable TV without a cable box

To connect an antenna or cable TV without a cable box:

- Connect a 75 ohm cable (not provided) to the **ANT/CABLE IN** jack on the back of your TV and to the antenna or cable TV wall jack.



Notes

- Use a 75 ohm cable to eliminate interference and noise from radio waves.
- Do not bundle the 75 ohm cable with the power cord or other cables.
- If the antenna is not installed correctly, contact qualified service personnel to correct the problem.

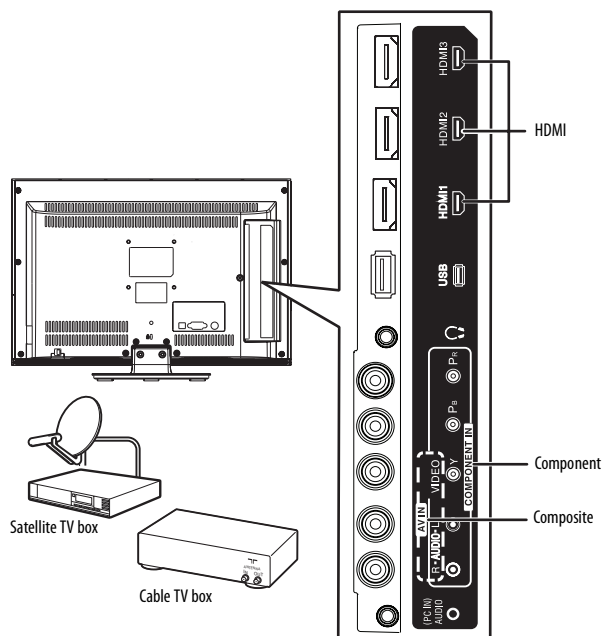
Connecting a cable or satellite box

Many cable or satellite TV boxes have more than one connection type. To get the best video, you should use the best connection type available.

Connection type	Video quality
HDMI	Best
Component	Better than composite or RF
Composite	Better than RF
RF	Good

To connect a cable or satellite box:

- 1 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable box.



- 2 Depending on the jacks available on the cable or satellite TV box, connect a cable (not provided) from the outgoing jacks on the cable or satellite TV box to the corresponding jacks on the back of your TV. The connection can be to an **HDMI** jack, the **COMPONENT IN** jacks, or the **AV IN VIDEO** jack.
- 3 If you use the **COMPONENT IN** jacks or the **AV IN VIDEO** jack, connect an audio cable (provided) to the **AV IN AUDIO L/R** jacks.

Note

If the cable or satellite TV box does not have an HDMI, component, or composite jack, connect the cable or satellite TV box to the **ANT/CABLE IN** jack on the back of your TV. For more information, see "Connecting an antenna or cable TV without a cable box" on page 9.

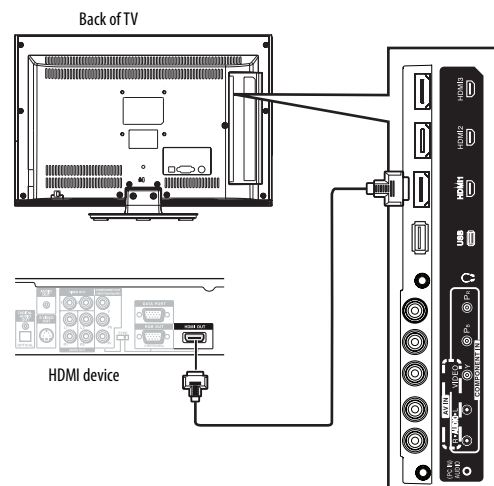
Connecting an HDMI device

Note

If your device has an HDMI connection, we recommend that you use the HDMI connection to get the best quality possible.

To connect an HDMI device:

- 1 Make sure that your TV's power cord is unplugged and the HDMI device is turned off.
- 2 Connect an HDMI cable (not provided) to the **HDMI1**, **HDMI2**, or **HDMI3** jack on the back of your TV and to the **HDMI OUT** jack on the HDMI device.



To play from an HDMI device:

- 1 Turn on your TV, then press **INPUT** to open the *Input Source* list.
- 2 Press **▲** or **▼** to select **HDMI 1**, **HDMI 2**, or **HDMI 3**, then press **ENTER**.

Note

You can also press **HDMI** repeatedly to select the HDMI device.

- 3 Turn on the HDMI device, then set it to the output mode. See the documentation that came with the device for more information.

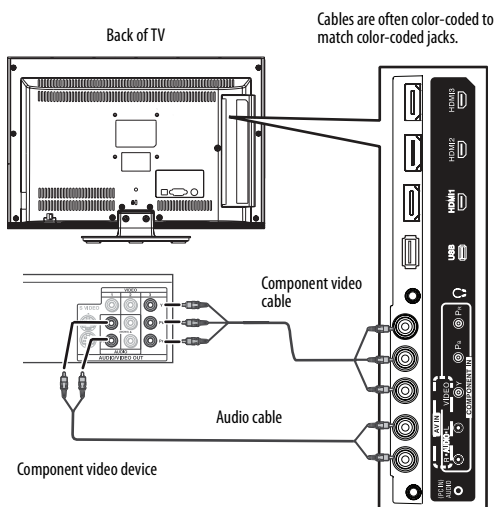
Note

If the device only has a DVI jack, use a DVI-to-HDMI adapter to connect the DVI jack to an **HDMI** jack on your TV, then connect the audio to the **(PC IN) AUDIO** jack.

Connecting a component video device

To connect a component video device:

- 1 Make sure that your TV's power cord is unplugged and the component video device is turned off.
- 2 Connect a component video cable (provided) to the **COMPONENT IN** jacks on the back of your TV and to the **COMPONENT OUT** jacks on the component video device.



- 3 Connect an audio cable (provided) to the **AV IN AUDIO L/R** jacks on the back of your TV and to the L/R **AUDIO OUT** jacks on the component video device.

To play from the component video device:

- 1 Turn on your TV, then press **INPUT** to open the *Input Source* list.
- 2 Press **▲** or **▼** to select **Component/AV**, then press **ENTER**.

Note

You can also press **COMP/AV** to select the component video device.

- 3 Turn on the component video device, then set it to the output mode. See the documentation that came with the device for more information.

Note

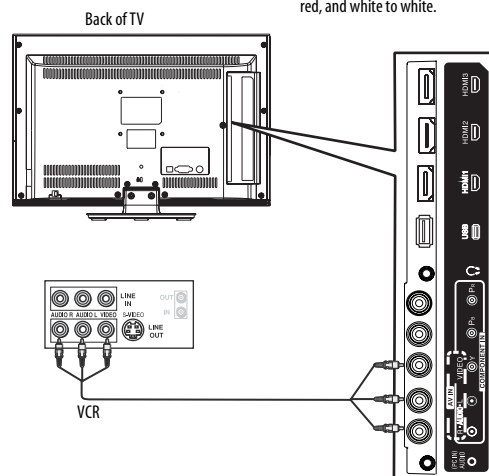
The **COMPONENT IN** jacks share the audio jacks with the **AV IN VIDEO** jack.

Connecting a VCR

To connect a VCR:

- 1 Make sure that your TV's power cord is unplugged and the VCR is turned off.
- 2 Connect an AV cable (not provided) to the **AV IN VIDEO** and **AV IN AUDIO L/R** audio jacks and to the **AV OUT** jacks on the VCR.

Cables are often color-coded to match color-coded jacks. Connect yellow to yellow, red to red, and white to white.



To play from the VCR:

- 1 Turn on your TV, then press **INPUT** to open the *Input Source* list.
- 2 Press **▲** or **▼** to select **Component/AV**, then press **ENTER**.

Note

You can also press **COMP/AV** to select the VCR.

- 3 Turn on the VCR, insert a videotape, then press **PLAY** on the VCR.

Note

The **AV IN VIDEO** jack shares the audio jacks with the **COMPONENT IN** jacks.

Connecting a computer

Tip

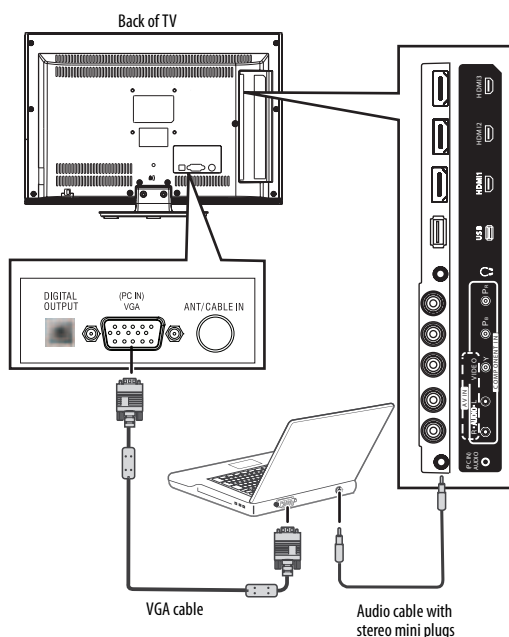
Some computers have an HDMI jack. You can use an HDMI cable to connect the computer for a better picture.

To connect a computer:

- 1 Make sure that your TV's power cord is unplugged and the computer is turned off.
- 2 Connect a VGA cable (not provided) to the **VGA** jack on the back of your TV and to the **VGA** jack on the computer.

Note

The VGA cable should be a 15-pin D-Sub (analog RGB) cable.



- 3 Connect an audio cable with stereo mini plugs to the **PC IN AUDIO** jack on the back of your TV and to the **LINE OUT** or **AUDIO OUT** jack on the computer.

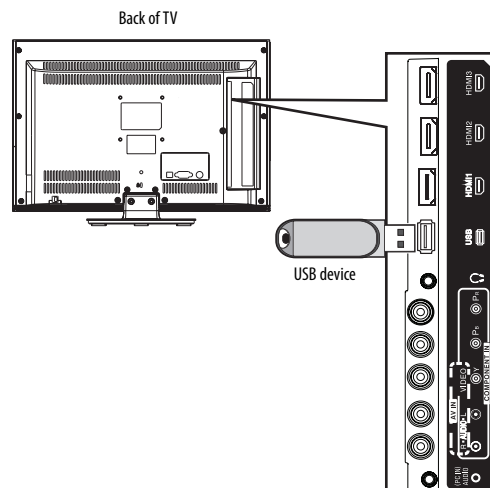
To play video from the computer:

- 1 Turn on your TV, then press **INPUT** to open the *Input Source* list.
- 2 Press **▲** or **▼** to select **VGA**, then press **ENTER**.
- 3 Turn on the computer and adjust the display properties if necessary.

Connecting a USB device

To connect a USB device:

- Plug a USB device, such as a flash drive, into the USB port on the back of your TV.



Caution

Never remove the USB device or turn off the TV while using the USB device. You may lose data or damage the USB device.

To play from a USB device:

- 1 Turn on your TV, then press **INPUT** to open the *Input Source* list.
- 2 Press **▲** or **▼** to select **USB**, then press **ENTER**.

Note

For more information, see "Using USB" on page 34.


Connecting headphones

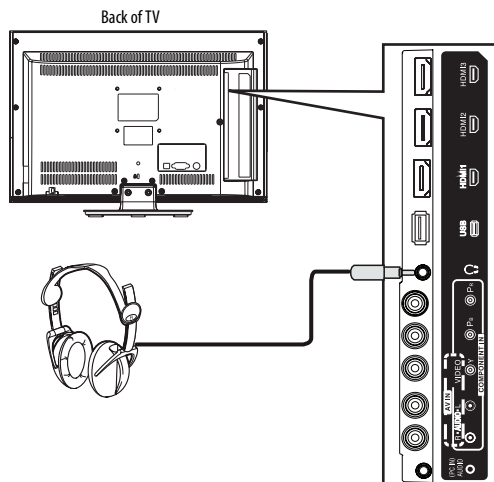
The TV speakers are muted when headphones are attached.

Warning

Loud noise can damage your hearing. When using headphones, use the lowest volume setting on your headphones that still lets you hear the sound.

To connect headphones:

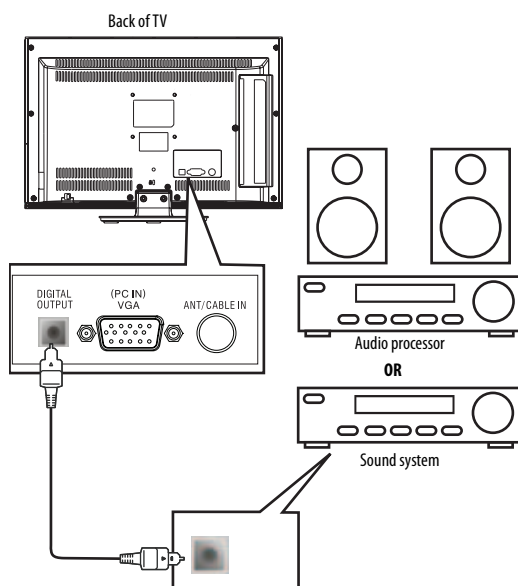
- Connect headphones to the  (headphone) jack on the back of your TV.



Connecting a digital sound system

To connect a digital sound system:


- 1 Make sure that your TV's power cord is unplugged and the sound system is turned off.
- 2 Connect a digital optical audio cable to **DIGITAL OUTPUT** jack on the back of your TV and to the digital optical audio jack on the digital sound system.





Turning on your TV for the first time

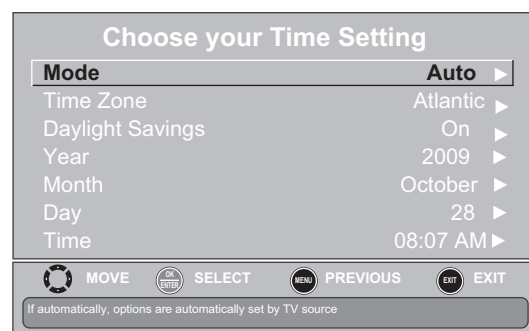
The first time you turn on your TV, the Setup Wizard opens. The Setup Wizard guides you through setting up basic settings including the menu language, time setting, picture mode, TV signal source, and the channel list.









To set up your TV:

- 1 Make sure that you have:
 - Installed the remote control batteries. (See page 7 for details.)
 - Connected an antenna, cable TV, or satellite TV. (See page 9 for details.)
 - Connected the power cord. (See page 9 for details.)
- 2 Press  (power) on the remote control to turn on your TV. The *Choose your menu language* screen opens.

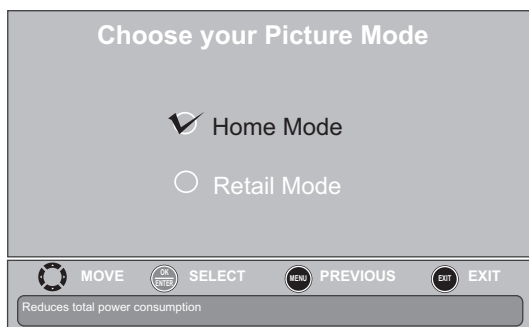


- 3 Press  or  to highlight the language you want, then press **ENTER**. The *Choose your Time Setting* screen opens.



- 4 Press  or  to highlight **Mode**, then press  or  to select **Manual** (to set the date and time manually) or **Auto** (to set the date and time automatically from a TV signal source based on the time zone you select).
- 5 If you selected **Auto** for **Mode**, press  or  to highlight **Time Zone**, then press  or  to select your time zone. You can select **Eastern, Central, Mountain, Pacific, Alaska, Hawaii, Atlantic, or Newfoundland**.

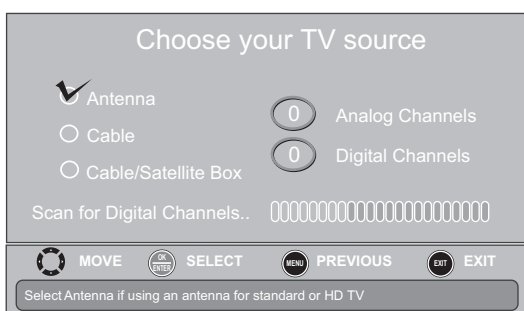
- 6 If you selected **Auto** for **Mode**, press **▲** or **▼** to highlight **Daylight Savings**, then press **◀** or **▶** to select **On** (if your viewing area observes Daylight Savings Time) or **Off** (if your viewing area does not observe Daylight Savings Time).
- 7 If you selected **Manual** for **Mode**, set the date by pressing **▲** or **▼** to highlight **Year**, **Month**, or **Day**, then press **◀** or **▶** to adjust the setting.
- 8 If you selected **Manual** for **Mode**, set the time by pressing **▲** or **▼** to highlight **Time**, then pressing **◀** or **▶** to select the hour, minute, or AM/PM field. Press **▲** or **▼** to adjust the setting.
- 9 Press **ENTER**. The *Choose your Picture Mode* screen opens.



- 10 Press **▲** or **▼** to highlight **Home Mode** or **Retail Mode**, then press **ENTER**.

If you selected **Retail Mode**, a message appears "If you select Retail Mode, then Energy saving is not realized." Select **Yes** to continue, or select **No** to change your selection.

The *Choose your TV source* screen opens.



- 11 Press **▲** or **▼** to highlight **Antenna**, **Cable**, or **Cable/Satellite Box** (if your cable TV uses a box, select **Cable/Satellite Box**), then press **ENTER**. If you chose **Antenna** or **Cable**, your TV automatically starts scanning for channels available in your viewing area. If you chose **Cable/Satellite box**, your TV does not need to scan for channels.

During auto channel search, your TV searches for digital channels first. When the digital channel search is complete, a message appears asking if you want to search for analog channels. Select **Yes** to continue searching for analog channels, or select **No** to stop searching for channels.

Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

- 12 To watch TV, press **INPUT**, press **▲** or **▼** to highlight **TV** in the *Input Source* list, then press **ENTER**.

Note

You can select a different video input source.

Understanding the basics

Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

Turning your TV on or off

To turn your TV on or off:

- 1 Make sure that the power cord is connected to a power outlet.
- 2 Press **⏻** (power) to turn on your TV. The power indicator LED turns blue.
- 3 Press **⏻** (power) again to turn off your TV. Your TV enters Standby mode and the power indicator LED turns red.

Warning

When your TV is in standby mode, it is still receiving power. To completely disconnect power, unplug the power cord.

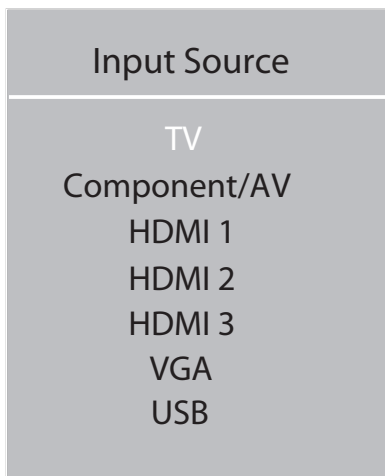
Note

If your TV does not receive an input signal for several minutes, it automatically goes into standby mode.

Selecting the video input source

To select the video input source:

- 1 Turn on your TV, then press **INPUT**. The *Input Source* list opens.



- 2 Press **▲** or **▼** to highlight a video input source, then press **ENTER**.

You can also press a direct input button to select the video input source.

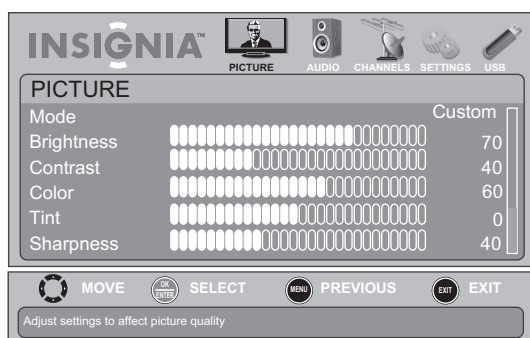
- Press **TV** to select TV.
- Press **COMP/AV** to select AV IN VIDEO or COMPONENT IN.
- Press **HDMI** once to select HDMI 1. Press twice to select HDMI 2. Press three times to select HDMI 3.

On-screen menu overview

Notes

- Depending on the signal source selected, you may see different options on your screen. The following menus are shown in TV mode (except the USB menu).
- Menu items that are not selectable are grayed out.
- Menus in this manual are described in TV mode, unless otherwise indicated.
- The screens shown in this manual are for explanation purposes and may vary from the actual screens on your TV.

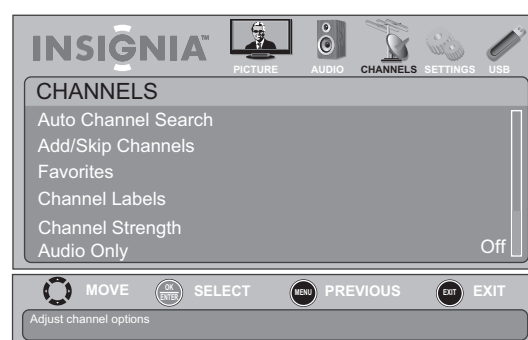
PICTURE menu (TV mode)



AUDIO menu (TV mode)



CHANNELS menu (TV mode)



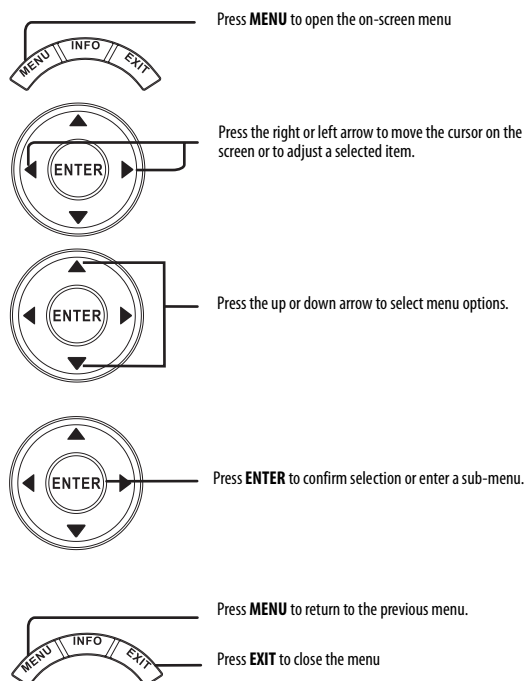
SETTINGS menu (TV mode)



USB menu (USB mode)



Navigating the menus



Selecting a channel

To select a channel:

- Press **CH** \wedge or **CH** \vee to go to the next or previous channel on the memorized channel list.
- Press the number buttons to enter the channel number you want, then wait for the channel to change or press **ENTER** to immediately change the channel.
- To select a digital sub-channel, press the number buttons to select the main digital channel, press **.** (dot), then press the number button for the sub-channel. Wait for the channel to change, or press **ENTER** to immediately change the channel. For example, to tune to channel 5.1, press **5**, **.** (dot), then **1**.
- Press **○** **RECALL** to go to the last viewed channel.
- Press **CH-LIST** to open the channel list, press \blacktriangle or \blacktriangledown to highlight a channel, then press **ENTER**.
- Press **FAVORITE** to open the favorite channel list, press \blacktriangle or \blacktriangledown to highlight a channel, then press **ENTER**.

Note

If a list has more than one page, press \blacktriangle or \blacktriangledown to scroll through the pages.

Adjusting the volume

To adjust the volume:

- Press **VOL +** or **VOL -** to increase or decrease the volume.
- Press **MUTE** to turn off the sound. Press **MUTE** again to turn the sound back on.

Viewing channel information

To view channel information:

- Press **INFO** to view an information banner. The information banner shows the current program information such as channel number, video input source, and resolution.
 - Digital channel information—Displays the channel number, station name, channel label, broadcast program name, TV rating, signal type, audio information, resolution, CC mode, current time, and current program start and end times.
 - Analog channel information—Displays channel number, channel label (if preset), signal type, audio information, and resolution.
- Press **GUIDE** to show the digital program guide, which may view a list of available programs, program times, and program summaries, depending on the information provided by the broadcaster.

Adjusting the picture

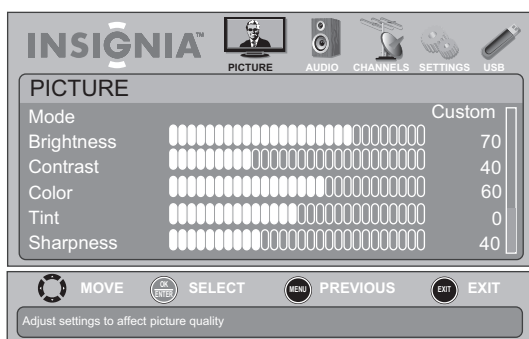
Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

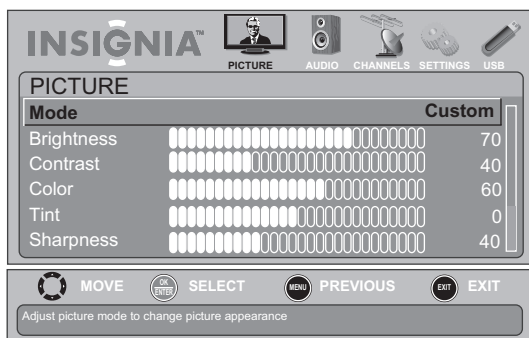
Adjusting the TV picture

To adjust the TV picture:

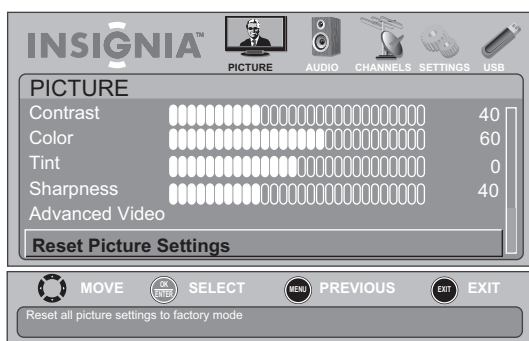
- 1 Press **MENU**. The on-screen menu opens with the **PICTURE** menu displayed.



- 2 Press **▼** or **ENTER** to access the menu.



Press **▼** to view additional options.



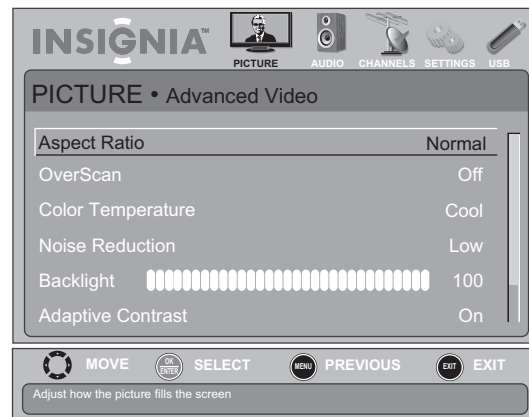
- 3 Press **▲** or **▼** to highlight an option, then press **ENTER** to access the option. You can select:
 - **Mode**—Selects the picture mode. You can select:
 - **Vivid** (a bright and vivid picture)
 - **Standard** (a standard picture)
 - **Energy Savings** (the backlight brightness is decreased)
 - **Theater** (a finely detailed picture)

- **Sports** (a dynamic picture)
- **Custom** (customized picture).

Note

You can also press **PICTURE** to select the picture mode.

- **Brightness**—Adjusts the brightness.
- **Contrast**—Adjusts the contrast.
- **Color**—Adjusts the color saturation.
- **Tint**—Adjusts the image tint.
- **Sharpness**—Adjust the sharpness.
- **Advanced Video**—Opens the **PICTURE-Advanced Video** menu where you can adjust additional video options.



- **Aspect Ratio**—Selects the aspect ratio of the picture. You can select **Normal** (selects the correct aspect ratio to match the source image), **Wide** (shows a full-screen picture), **Zoom** (enlarges the picture but may crop the top and bottom), **Cinema** (stretches the picture at the edges, but maintains a good aspect ratio at the center of the screen), or **Auto** (select the correct aspect ratio automatically) if **Auto Zoom** in the **CHANNELS** menu is set to **On**. When **Auto Zoom** in the **CHANNELS** menu is set to **Off**, only **Normal**, **Wide**, **Zoom**, or **Cinema** can be selected.

Note

You can also press **ZOOM** to select the aspect ratio.

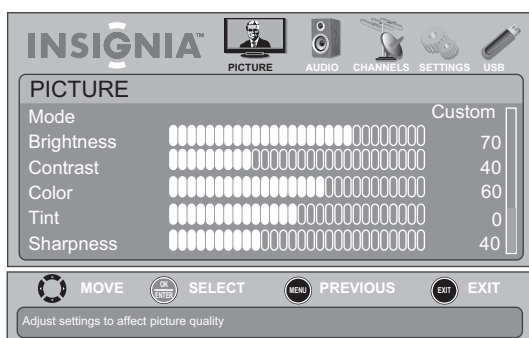
- **Overscan**—Adjusts the picture's reproduction rate. You can select **On** or **Off**.
- **Color Temperature**—Selects the color temperature. You can select **Cool** (to enhance the blues), **Normal**, or **Warm** (to enhance the reds).
- **Noise Reduction**—Selects the noise reduction mode to reduce picture noise (snow). You can select **Low**, **Middle**, **High**, or **Off**.
- **Backlight**—Sets the overall brilliance of the screen.
- **Adaptive Contrast**—Automatically adjusts picture detail and brightness. You can select **On** or **Off**.

- **Dynamic Contrast Ratio**—Enhances the contrast ratio between light and dark areas of the picture. You can select **On** or **Off**.
 - **Reset Picture Settings**—Reset all picture settings to factory mode.
- 4 Press ◀ or ▶ to adjust the option, or press ▲ or ▼ to select a setting.
 - 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting the computer image

To adjust the computer image:

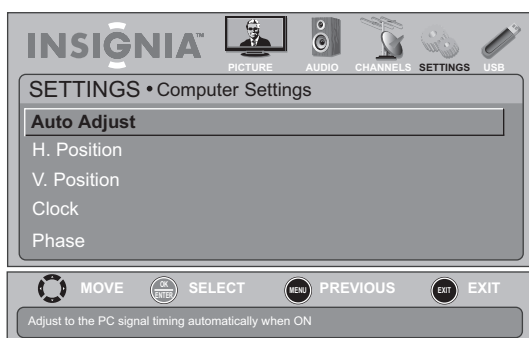
- 1 Make sure that your TV is in VGA mode. For more information, see "Selecting the video input source" on page 15.
- 2 Press **MENU**. The on-screen menu opens.



- 3 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **ENTER**. The **SETTINGS** menu opens.



- 4 Press ▲ or ▼ to highlight **Computer Settings**, then press **ENTER**. The **SETTINGS-Computer Settings** menu opens.



- 5 Press ▲ or ▼ to highlight an option, then press **ENTER** to access the option. You can select:
 - **Auto Adjust**—Automatically adjusts the image settings such as position and phase.
 - **H. Position**—Moves the image right or left.
 - **V. Position**—Moves the image up or down.
 - **Clock**—Adjusts the sample frequency.
 - **Phase**—Adjusts the focus of stable images.
- 6 Press ◀ or ▶ to adjust the option, or press ▲ or ▼ to select a setting.
- 7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting the sound

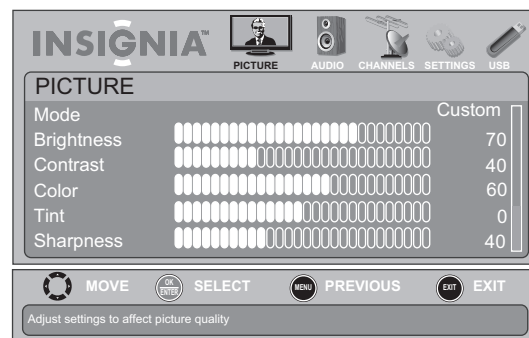
Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

Adjusting sound settings

To adjust sound settings:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press ◀ or ▶ to highlight **AUDIO**, then press ▼ or **ENTER**. The **AUDIO** menu opens.



- 3 Press ▲ or ▼ to highlight an option, then press **ENTER** to access the option. You can select:
 - **Audyssey Dynamic Volume™**—Adjusts the Audyssey mode to change the audio effect. You can select: Off, Light, Medium, or Heavy.
 - **SRS TruSurround HD™**—Restores the spatial cues that are present in a live listening environment and processes them to provide a natural 3D sound field.

- **Treble**—Adjusts the high sounds.
- **Bass**—Adjusts the low sounds.
- **Balance**—Adjusts the balance between the left and right audio channels.

Note

You can quickly adjust **Treble** or **Bass** by using the **AUDIO** and ◀ and ▶ buttons on the remote control. Press **AUDIO** repeatedly to toggle between the Treble and Bass screens, then press ◀ or ▶ to adjust the level.

- **Advanced Audio**—Opens the **AUDIO-Advanced Audio** menu where you can adjust additional audio options.



- **Digital Audio/SPDIF**—Sends digital audio to an external audio system. You can select **PCM** (to select to output audio in 2-channel stereo), or **RAW** (to pass through the original digital audio sound).
- **Audio Language**—(Digital channels only) Selects an alternate audio language, if available.
- **MTS Audio**—(Analog channels only) Selects the audio mode. You can select:
 - **MONO**—Select this option if there is noise or static on weak stereo broadcasts.
 - **STEREO**—Select this option for programs broadcast in stereo.
 - **SAP**—Select this option to listen to a secondary audio program, if available.

Note

You can also press **MTS/SAP** one or more times to select the audio mode.

- **Reset Audio Settings**—Reset all audio settings to factory defaults.
- Press ◀ or ▶ to adjust the option, or press ▲ or ▼ to select a setting.
 - Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Selecting the audio mode

To select the audio mode for an analog channel:

- See "Adjusting sound settings" on page 18 to select the audio mode using the on-screen menu
- Or,**

Press **MTS/SAP** one or more times. You can select:

- **MONO**—Select this option if there is noise or static on weak stereo broadcasts.
- **STEREO**—Select this option for programs broadcast in stereo.

- **SAP**—Select this option to listen to a secondary audio program, if available.

Note

Mono is automatically selected if the program is broadcast in mono.

To select the audio mode for a digital channel:

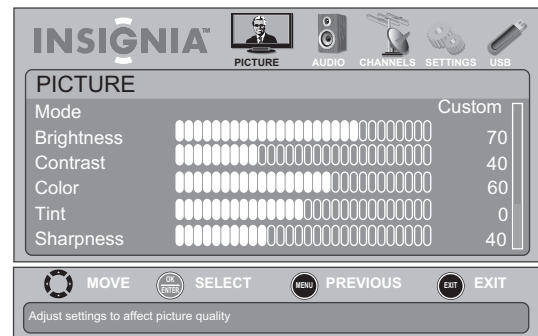
- Press **MTS/SAP**. If an audio track is available, it plays.

Playing TV audio only

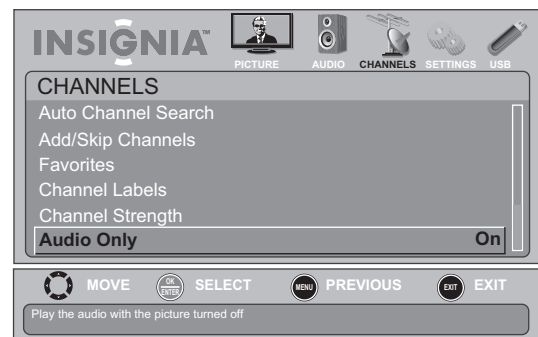
You can turn off the picture on your TV and listen to the program audio only.

To play TV audio only:

- Press **MENU**. The on-screen menu opens.



- Press ◀ or ▶ to highlight **CHANNELS**, then press ▼ or **ENTER**. The **CHANNELS** menu opens.



- Press ▲ or ▼ to highlight **Audio Only**, then press **ENTER**.
- Press ▲ or ▼ to select **On**.
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Notes

- **Audio Only** works only when the input source is TV and your TV is receiving a broadcast signal.
- To exit audio only mode, press any button. When you exit audio only mode, the **Audio Only** option is automatically reset to **Off**.

Changing channel settings

Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

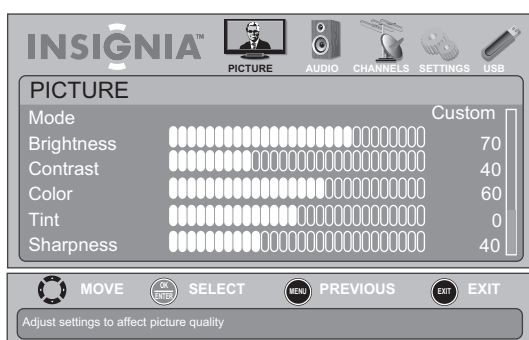
Automatically scanning for channels

When you scan for channels, your TV searches for channels with signals and stores the channel information in the channel list. When you press **CH** \wedge or **CH** \vee , your TV goes to the next or previous channel in the channel list.

If the TV signal source changes, for example you change from an outdoor antenna to cable TV (no box), you need to scan for channels.

To automatically scan for channels:

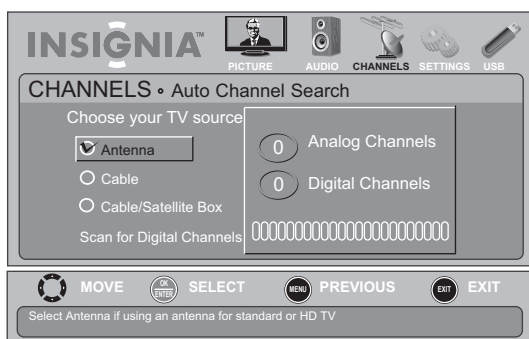
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press \blacktriangleleft or \blacktriangleright to highlight **CHANNELS**, then press \blacktriangledown or **ENTER**. The **CHANNELS** menu opens.



- 3 Press \blacktriangleup or \blacktriangledown to highlight **Auto Channel Search**, then press **ENTER**. The **CHANNELS-Auto Channel Search** screen opens.



- 4 Press \blacktriangleup or \blacktriangledown to highlight **Antenna**, **Cable**, or **Cable/Satellite Box**, then press **ENTER**.

- If you are using an antenna for a standard or HD TV signal, select **Antenna**.
- If your cable is connected directly to the TV (using no tuner box), select **Cable**.
- If your cable is connected to your TV through a tuner box, select **Cable/Satellite Box**.

If you selected **Antenna** or **Cable**, your TV searches automatically for available channels in your area and stores the channel information in the channel list. This may take several minutes. While searching, the TV displays a progress report.

Or,

If you selected **Cable/Satellite Box**, the channel search is not necessary.

Note

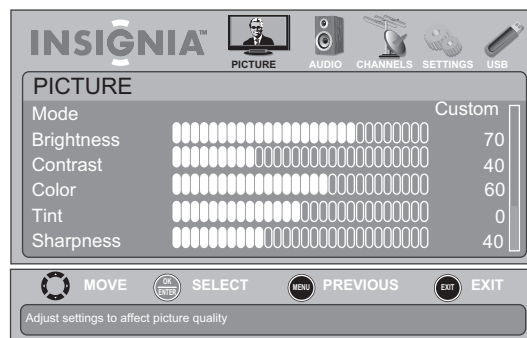
You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

Hiding channels

You can hide channels in the channel list. When you press **CH** \wedge or **CH** \vee , your TV will skip the hidden channels. You can still tune to a hidden channel by pressing the number buttons for the channel.

To hide channels:

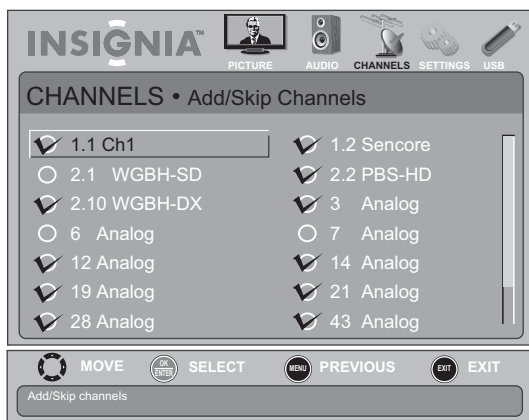
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press \blacktriangleleft or \blacktriangleright to highlight **CHANNELS**, then press \blacktriangledown or **ENTER**. The **CHANNELS** menu opens.



- 3 Press **▲** or **▼** to highlight **Add/Skip Channels**, then press **ENTER**. The **CHANNELS-Add/Skip Channels** screen opens.



- 4 Press **▲** **▼** **◀** or **▶** to highlight the channel you want to hide, then press **ENTER**. The check mark disappears.

Notes

- A channel with a check mark is not hidden. A channel with no check mark is hidden.
- If the list has more than one page, press **▲** or **▼** to scroll through the pages.

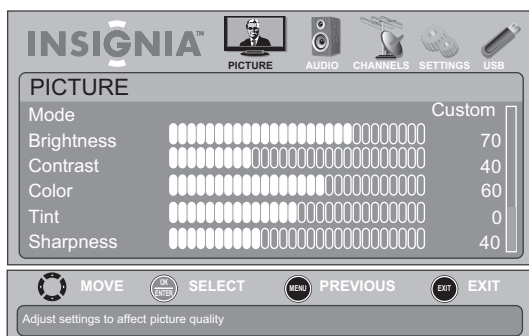
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Setting up a favorite channel list

You can create a favorite channel list so you can quickly browse through your favorite channels by pressing **FAVORITE**, then selecting a channel from the favorite channel list.

To set up a favorite channel list:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER**. The **CHANNELS** menu opens.



- 3 Press **▲** or **▼** to highlight **Favorites**, then press **ENTER**. The **CHANNELS-Favorites** screen opens.



- 4 Press **▲** **▼** **◀** or **▶** to highlight the channel you want to add to the favorites list, then press **ENTER**. A check mark appears next to the channel.

Notes

- To remove a channel from the favorites list, highlight the channel, then press **ENTER**. The check mark disappears and the channel is removed from the list.
- If the list has more than one page, press **▲** or **▼** to scroll through the pages.

- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Viewing a favorite channel

To view a favorite channel:

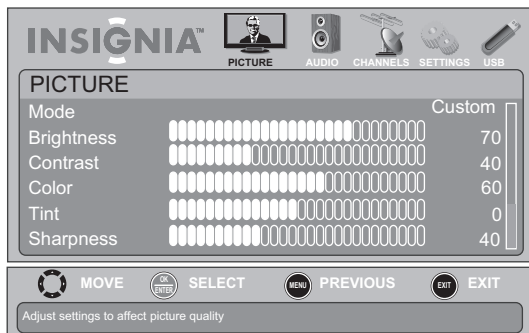
- 1 Press **FAVORITE**. The favorite channel list opens.
- 2 Press **▲** or **▼** to highlight a channel, then press **ENTER**.

Adding or changing a channel label

If a channel is not already labeled, you can label the channel to make it easier to identify. You can also relabel a channel that is already labeled.

To add or change a channel label:

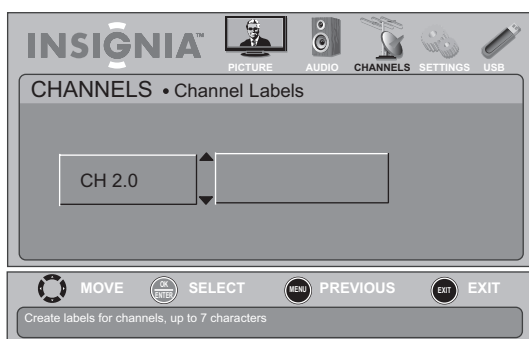
- 1 Press **MENU**. The on-screen menu opens.



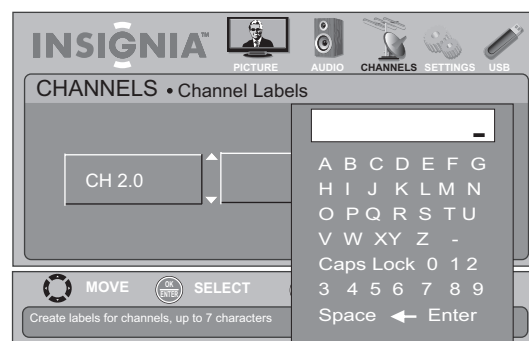
- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER**. The **CHANNELS** menu opens.



- 3 Press **▲** or **▼** to highlight **Channel Labels**, then press **ENTER**. The **CHANNELS-Channel Labels** screen opens with the channel number field highlighted.



- 4 Press **▲** or **▼** to select the channel you want to label, then press **▶** to move to the channel label field.



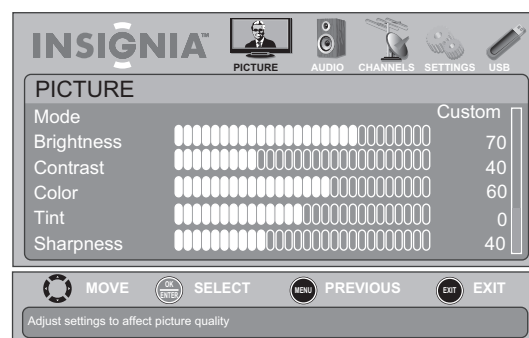
- 5 Press **▲** **▼** **◀** or **▶** to highlight a character, then press **ENTER**. Repeat this step to enter additional characters. You can enter as many as seven characters. If you need to delete a character, highlight **◀**, then press **ENTER**.
- 6 When you have completed the label, press **MENU**.
- 7 Press **EXIT** to close the menu.

Checking the digital signal strength

You can check the digital signal strength to determine if you need to adjust your antenna or digital cable input. The higher the signal strength, the less likely you are to experience picture degradation.

To check the digital signal strength:

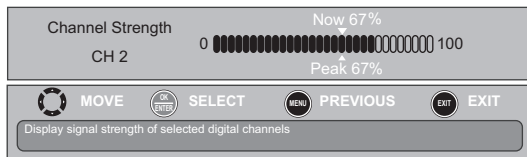
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER**. The **CHANNELS** menu opens.



- Press **▲** or **▼** to highlight **Channel Strength**, then press **ENTER**. The *Channel Strength* screen opens showing the signal strength meter.



- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Setting parental controls

Note

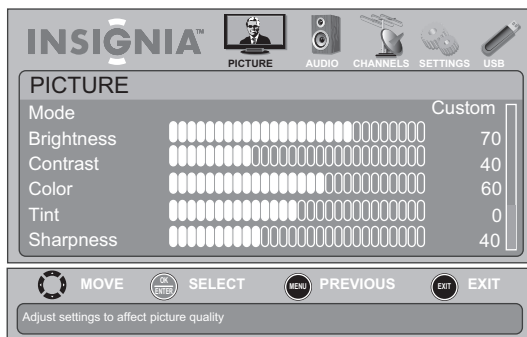
Unless otherwise noted, all tasks in this section are based on using the remote control.

Setting or changing the password

Parental controls let you prevent your children from watching inappropriate material on TV. When set, parental controls read the rating of the program (with some exceptions, such as news and sports) and deny access to programs that exceed the ratings level you select. To watch programs that exceed the selected rating, you must enter a password.

To set or change the password:

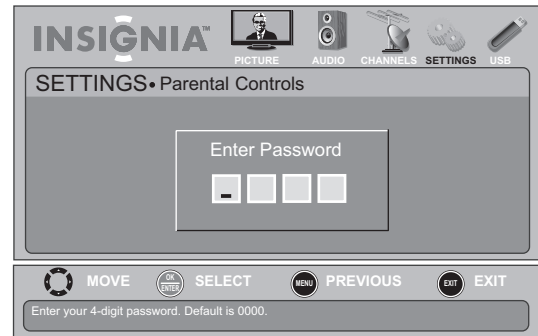
- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The *SETTINGS* menu opens with **Parental Controls** highlighted.



- Press **ENTER**. The *Enter Password* screen opens.



- Press the number buttons to enter the four-digit password. The default password is **0000**. You should change the password to a number you can remember. The *Parental Controls* menu opens.



- Press **▲** or **▼** to highlight **Change Password**, then press **ENTER**. The password entry screen opens.
- Press the number buttons to enter a password, then enter the password again. The *Parental Controls* menu opens again.

Note

If you forget your password, enter **9999**.

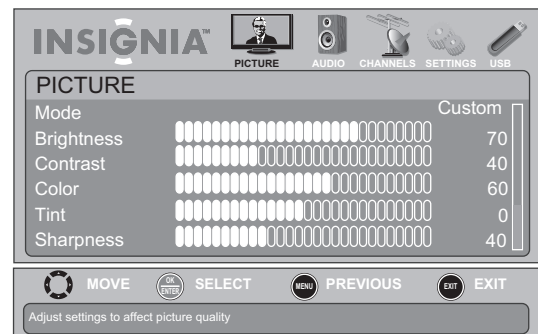
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Locking control buttons

When the button lock is turned **On**, the buttons on the front of your TV are locked and you can only operate your TV using the remote control.

To lock control buttons:

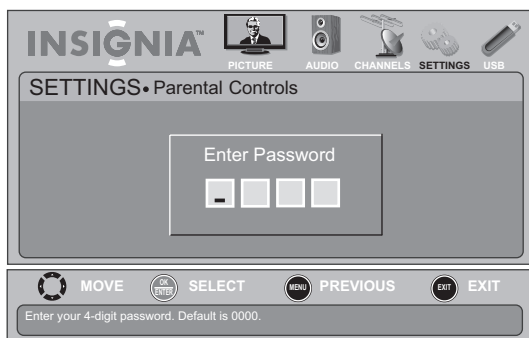
- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens with **Parental Controls** highlighted.



- Press **ENTER**. The *Enter Password* screen opens.



- Press the number buttons to enter the four-digit password. The **SETTINGS-Parental Controls** menu opens with **Button Lock** highlighted.

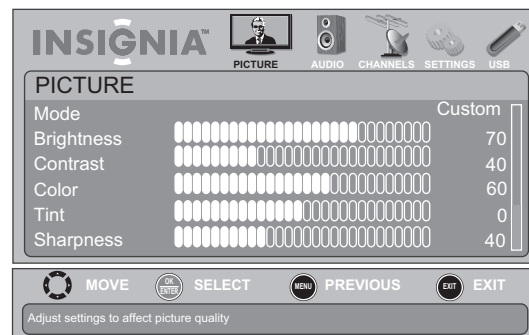


- Press **ENTER**.
- Press **▲** or **▼** to select **On** (locks the buttons) or **Off** (unlocks the buttons).
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

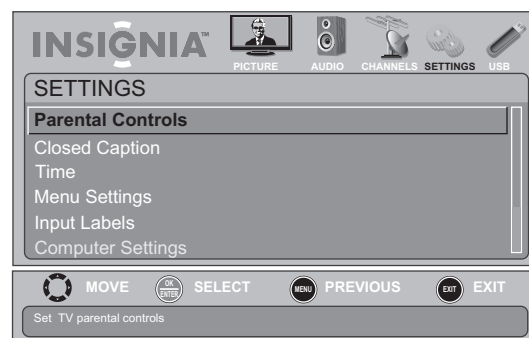
Blocking unrated TV

To block unrated TV:

- Press **MENU**. The on-screen menu opens.



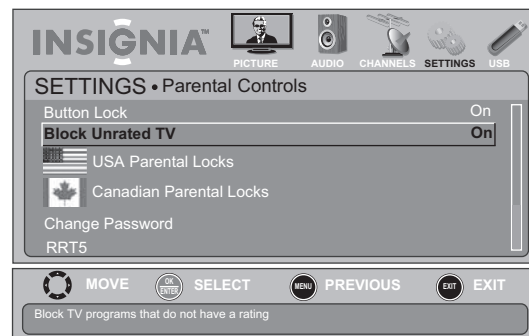
- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens with **Parental Controls** highlighted.



- Press **ENTER**. The *Enter Password* screen opens.



- Press the number buttons to enter the four-digit password. The **SETTINGS-Parental Controls** menu opens.



- 5 Press **▲** or **▼** to highlight **Block Unrated TV**, then press **ENTER**.
- 6 Press **▲** or **▼** to select **On** (to block unrated TV) or **Off** (to unblock unrated TV).
- 7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

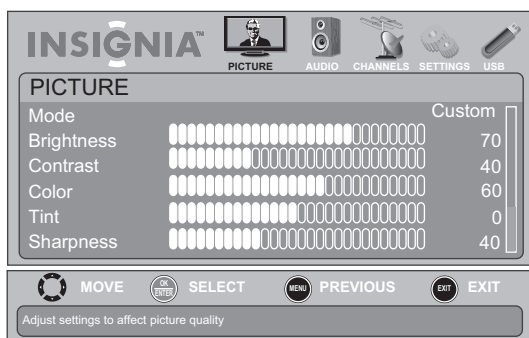
Setting parental control levels

You can set parental controls for the U.S. and Canada.

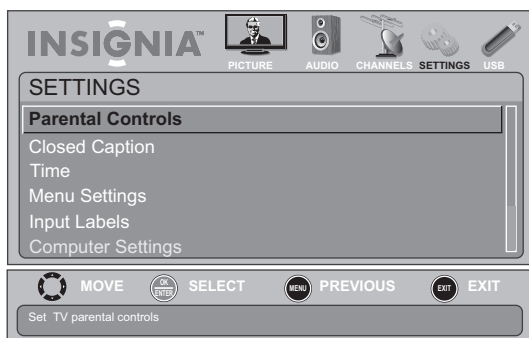
The following task shows how to set controls for U.S. TV ratings. You use similar steps for setting U.S. movie and Canadian TV ratings.

To set parental control levels:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens with **Parental Controls** highlighted.



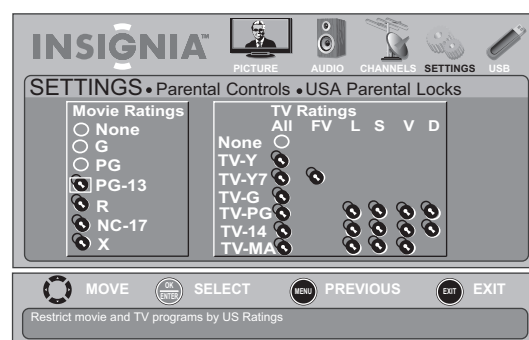
- 3 Press **ENTER**. The *Enter Password* screen opens.



- 4 Press the number buttons to enter the four-digit password. The **SETTINGS-Parental Controls** menu opens.



- 5 Press **▲** or **▼** to highlight **USA Parental Locks**, then press **ENTER**. (To set Canadian ratings, select **Canadian Parental Locks**.)



- 6 Press **◀** or **▶** to highlight **Movie Ratings** (or **Canadian English**), then press **▲** or **▼** to select a rating.

Or,

Press **◀** or **▶** to highlight **TV Ratings** (or **Canadian French**), then press **▲** **▼** **◀** or **▶** to select the rating.

Note

When you block a rating, that rating and all higher ratings are blocked.

- 7 Press **ENTER** to confirm. A lock symbol appears when a rating is blocked.
- 8 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

U.S. TV ratings

NONE	Not rated
TV-Y	All children
TV-Y7	Children over seven years of age
TV-G	General audiences
TV-PG	Parental guidance suggested
TV-14	Parents strongly cautioned
TV-MA	Mature audiences only

Some of the age-based TV Parental Guidelines ratings also have content-based ratings.

U.S. TV content ratings

All	All ratings are blocked
FV	Fantasy violence
L	Adult language
S	Sexual situations
V	Violence
D	Sexually suggestive dialog

U.S. movie (MPAA) ratings

None	Movie not rated
G	General audiences
PG	Parental guidance suggested
PG-13	Suitable for children 13 and older
R	Parental guidance suggested for children under 17
NC-17	Not suitable for children under 17
X	Adults only

Canadian English ratings

E	Exempt programming
C	Children
C8+	Children over 8 years old
G	General audiences
PG	Parental guidance
14+	Over 14 years old
18+	Adult programming

Canadian French ratings

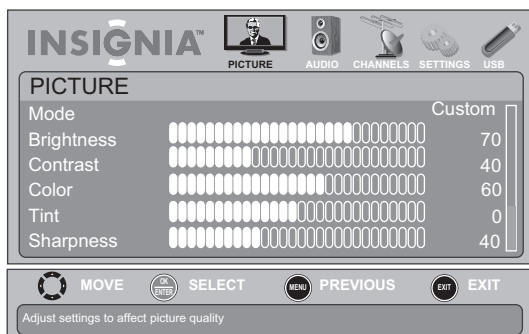
E	Exempt programming
G	General audiences
8ans+	Over 8 years old
13ans+	Over 13 years old
16ans+	Over 16 years old
18ans+	Adult programming

Downloading rating information

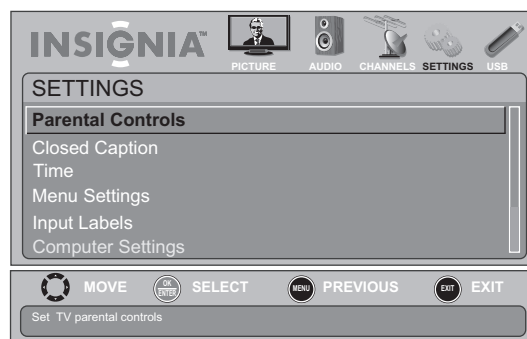
You can download rating information to use when setting parental controls.

To download rating information:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens with **Parental Controls** highlighted.



- 3 Press **ENTER**. The **Enter Password** screen opens.



- 4 Press the number buttons to enter the four-digit password. The **SETTINGS-Parental Controls** menu opens.



- 5 Press **▲** or **▼** to highlight **RRT5**, then press **ENTER**.

If the program is broadcast with RRT5 rating information, the information is downloaded automatically and can be used for parental controls.

- 6 To reset RRT information to factory mode, press **▲** or **▼** to highlight **Reset RRT**, then press **ENTER**. A box opens. Follow the on-screen instructions.
- 7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Using closed captioning

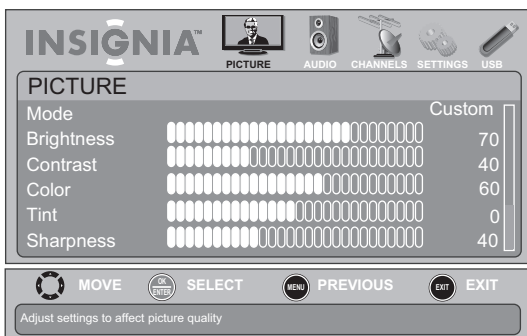
Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

Turning closed captioning on or off

To turn closed captioning on or off:

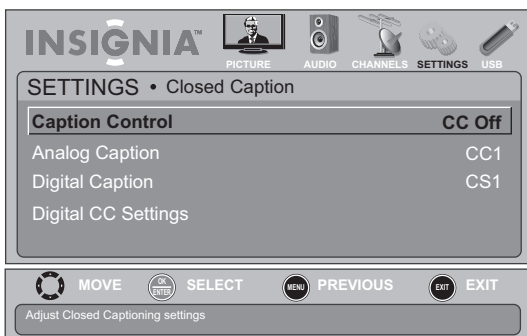
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens.



- 3 Press **▲** or **▼** to highlight **Closed Caption**, then press **ENTER**. The **SETTINGS-Closed Caption** menu opens.



- 4 Press **▲** or **▼** to highlight **Caption Control**, then press **ENTER**. A menu opens.
- 5 Press **▲** or **▼** to select **CC Off** (turns off closed captioning), **CC On** (turns on closed captioning), or **CC on Mute** (turns on closed captioning when the sound is muted).

- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

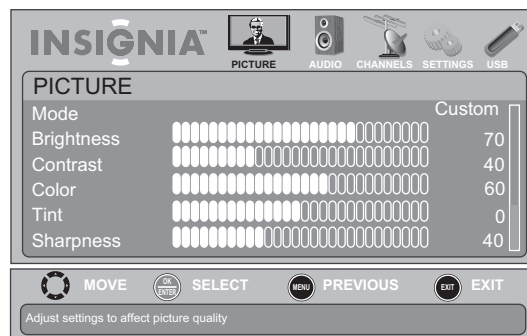
Note

You can also press **CCD** to turn closed captioning on or off.

Selecting the analog closed captioning mode

To select the analog closed captioning mode:

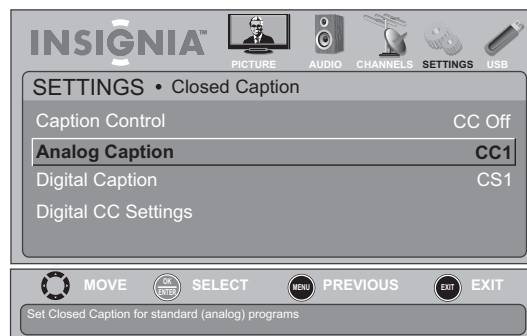
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens.



- 3 Press **▲** or **▼** to highlight **Closed Caption**, then press **ENTER**. The **SETTINGS-Closed Caption** menu opens.



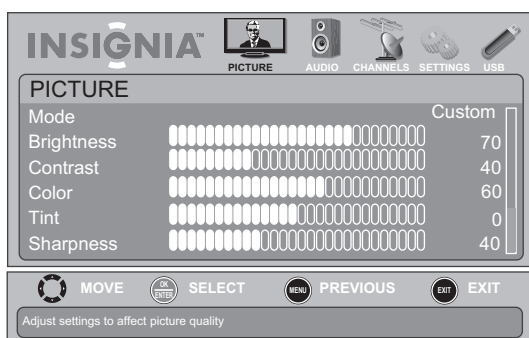
- 4 Press **▲** or **▼** to highlight **Analog Caption**, then press **ENTER**. A menu opens.

- 5 Press **▲** or **▼** to select an analog caption setting. You can select:
 - **CC1** through **CC4**—Closed captioning appears in a small banner across the bottom of the screen. **CC1** is usually the “printed” version of the audio. **CC2** through **CC4** display content provided by the broadcaster.
 - **Text1** through **Text4**—Closed captioning that covers half or all of the screen. **Text1** through **Text4** display content provided by the broadcaster.
- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Customizing digital closed captioning styles

To customize digital closed captioning styles:

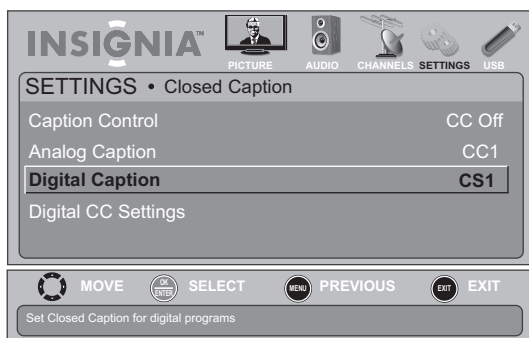
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens.

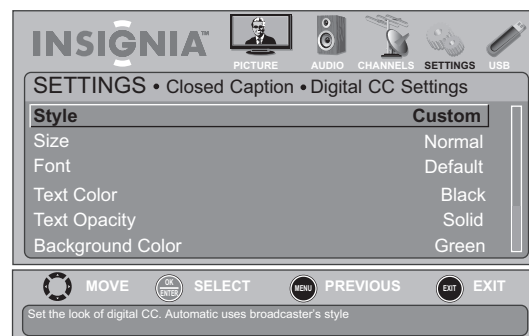


- 3 Press **▲** or **▼** to highlight **Closed Caption**, then press **ENTER**. The **SETTINGS-Closed Caption** menu opens.



- 4 Press **▲** or **▼** to highlight **Digital Caption**, then press **ENTER**. A menu opens.

- 5 Press **▲** or **▼** to highlight a digital caption setting, then press **ENTER**. You can select **CS1** through **CS6**.
- 6 Press **MENU** to return to the previous menu, press **▲** or **▼** to highlight **Digital CC Settings**, then press **ENTER**. The **Digital CC Settings** menu opens with **Style** highlighted.



- 7 Press **ENTER**, then press **◀** or **▶** to select **Custom**.
- 8 Press **▲** or **▼** to highlight an option, then press **ENTER**. You can select:
 - **Size**—Selects the font size.
 - **Font**—Selects the font style.
 - **Text Color**—Selects the color for the words.
 - **Text Opacity**—Selects the opacity level for the words.
 - **Background Color**—Selects the color for the background.
 - **Background Opacity**—Selects the opacity level for the background.
 - **Edge Effect**—Selects the edge style.
 - **Edge Color**—Selects the edge color.
- 9 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting time settings

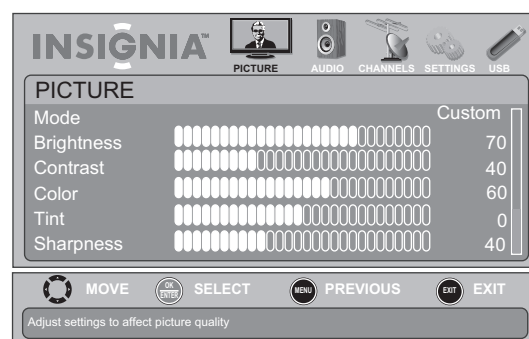
Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

Setting the clock

To set the clock:

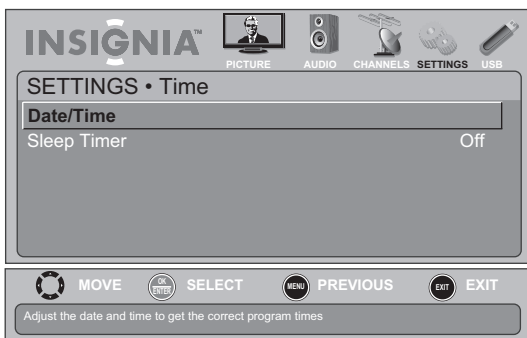
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **ENTER**. The *SETTINGS* menu opens.



- 3 Press ▲ or ▼ to highlight **Time**, then press **ENTER**. The *SETTINGS-Time* menu opens.



- 4 Press ▲ or ▼ to highlight **Date/Time**, then press **ENTER**. The *SETTINGS-Time-Date/Time* menu opens.



- 5 Press ▲ or ▼ to highlight **Mode**, then press **ENTER**. A menu opens.
- 6 Press ▲ or ▼ to highlight **Manual** (to set the options manually) or **Auto** (the options are automatically set by the TV signal source).
- 7 Press **ENTER** to close the menu.
- 8 If you selected **Auto** for **Mode**, press ▲ or ▼ to highlight **Time Zone**, then press **ENTER**. The *Time-Time Zone* menu opens.
- 9 Press ▲ or ▼ to select your time zone. You can select **Eastern, Central, Mountain, Pacific, Alaska, Hawaii, Atlantic, or Newfoundland**.
- 10 Press **ENTER** to close the menu.

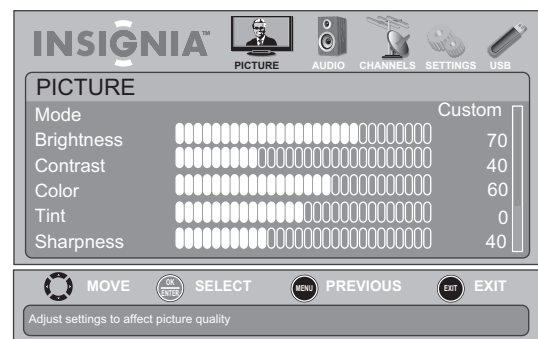
- 11 If your viewing area observes daylight savings time and you selected **Auto** for **Mode**, press ▲ or ▼ to highlight **Daylight Savings**, then press **ENTER**.
- 12 Press ▲ or ▼ to select **On**, then press **ENTER** to close the menu.
- 13 If you selected **Manual** for **Mode**:
- Press ▲ or ▼ to highlight **Year, Month, or Date**, then press ◀ or ▶ to adjust the setting.
 - Press ▲ or ▼ to highlight **Time**, press ◀ or ▶ to the hour, minute, or AM/PM field, then press ▲ or ▼ to adjust the setting.
- 14 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Setting the sleep timer

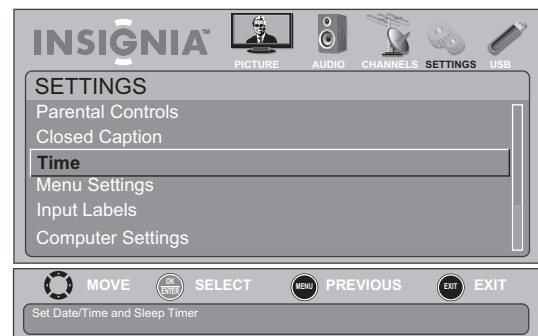
You can specify the amount of time before your TV automatically turns off.

To set the sleep timer:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **ENTER**. The *SETTINGS* menu opens.



- 3 Press ▲ or ▼ to highlight **Time**, then press **ENTER**. The *SETTINGS-Time* menu opens.



- 4 Press **▲** or **▼** to highlight **Sleep Timer**, then press **ENTER**. A menu opens.
- 5 Press **▲** or **▼** to select the amount of time before your TV turns off automatically. To turn off the sleep timer, select **Off**.
- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Note

You can also press **SLEEP** to set the sleep timer.

Adjusting menu settings

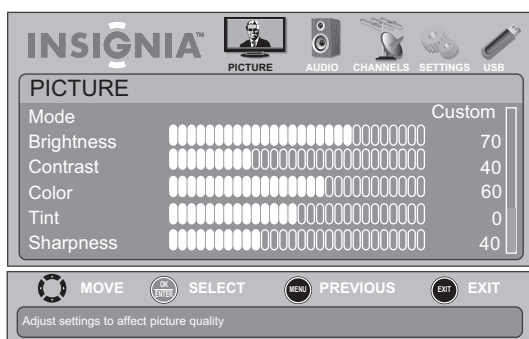
Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

Selecting the menu language and transparency

To select the menu language and transparency:

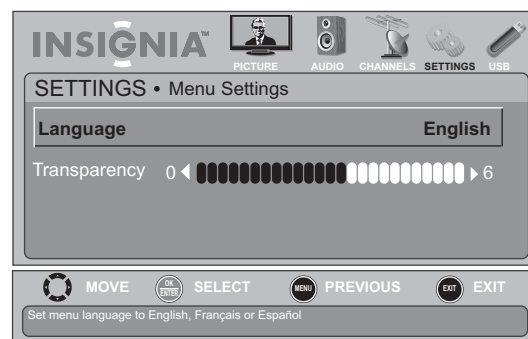
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens.



- 3 Press **▲** or **▼** to highlight **Menu Settings**, then press **ENTER**. The **SETTINGS-Menu Settings** menu opens.

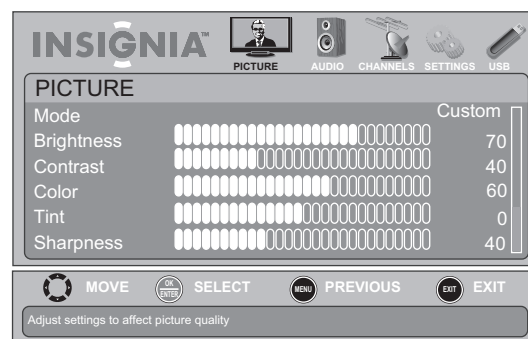


- 4 Press **▲** or **▼** to highlight **Language**, then press **ENTER**. A language menu opens.
- 5 Press **▲** or **▼** to highlight **English**, **French**, or **Spanish**, then press **ENTER** to close the menu.
- 6 Press **▲** or **▼** to highlight **Transparency**, then press **ENTER**.
- 7 Press **◀** or **▶** to adjust the menu transparency.
- 8 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

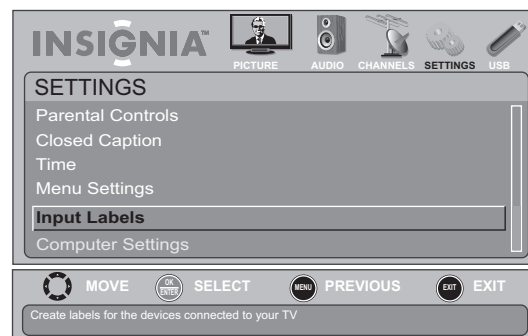
Labeling an input source

To label an input source:

- 1 Press **MENU**. The on-screen menu opens.



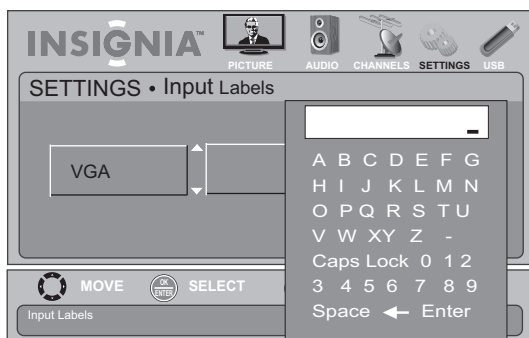
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens.



- Press **▲** or **▼** to highlight **Input Labels**, then press **ENTER**. The *SETTINGS-Input Labels* screen opens with the input source field highlighted.



- Press **▲** or **▼** to select the input source you want to label, then press **▶** to move to the custom label field.



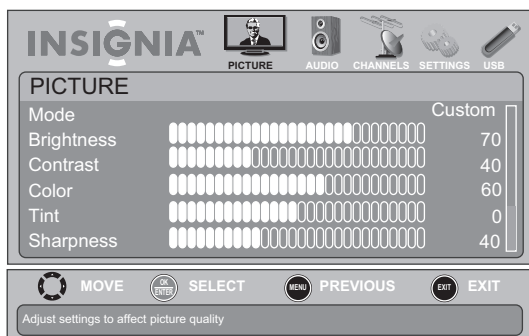
- Press **▲**, **▼**, **◀**, or **▶** to highlight a character, then press **ENTER**. Repeat this step to enter additional characters. You can enter as many as 11 characters. If you need to delete a character, highlight **←**, then press **ENTER**.
- When you have completed the label, press **MENU**. The next time you press **INPUT**, your label will appear in the *Input Source* list.
- Press **EXIT** to close the menu.

Turning Input Sensor on or off

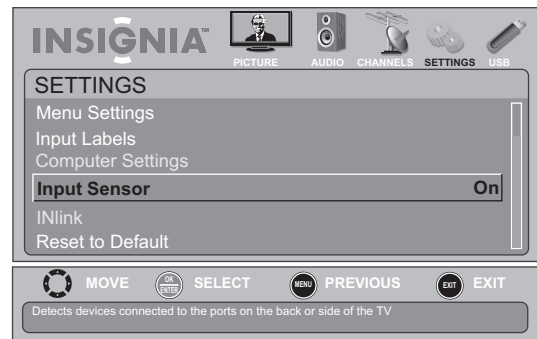
When the Input Sensor feature is turned on, your TV automatically detects which video jacks have devices connected to them. Your TV uses this information to determine what options you can select on the *Input Source* list when you press **INPUT**.

To turn Input Sensor on or off:

- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The *SETTINGS* menu opens.



- Press **▲** or **▼** to highlight **Input Sensor**, then press **ENTER**. A menu opens.
- Press **◀** or **▶** to select **On** (to activate the input sensor) or **Off** (to deactivate the input sensor).
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

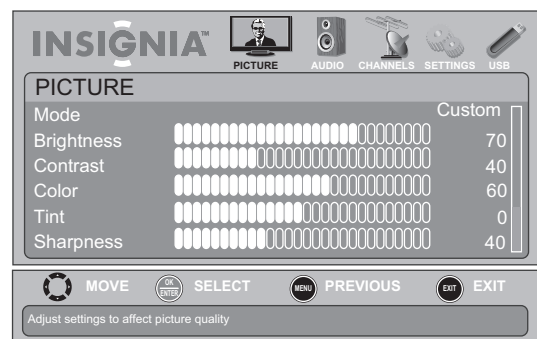
Using INlink

INlink lets you control HDMI CEC-compatible devices connected to the HDMI jacks on your TV using the remote control that came with your TV.

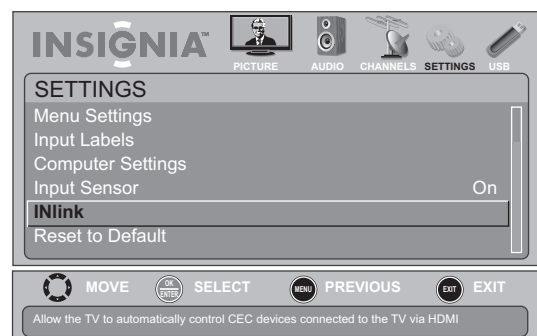
To use INlink, you must set the **INlink Control** option on the *SETTINGS-INlink* menu to **On**.

To turn INlink on or off:

- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The *SETTINGS* menu opens.



- Press **▲** or **▼** to highlight **INlink**, then press **ENTER**. The **SETTINGS-INlink** menu opens.



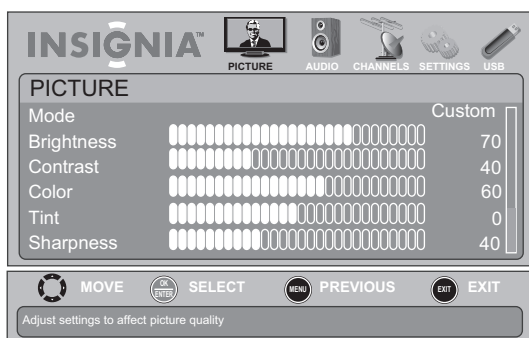
- Press **▲** or **▼** to highlight **INlink**, then press **ENTER**. The **SETTINGS-INlink** menu opens.



- Press **▲** or **▼** to highlight **INlink Control**, then press **ENTER**. A menu opens.
- Press **▲** or **▼** to highlight **On** (to turn on the **INlink Control** option) or **Off** (to turn off the **INlink Control** option).
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

To turn Device Auto Power Off on or off:

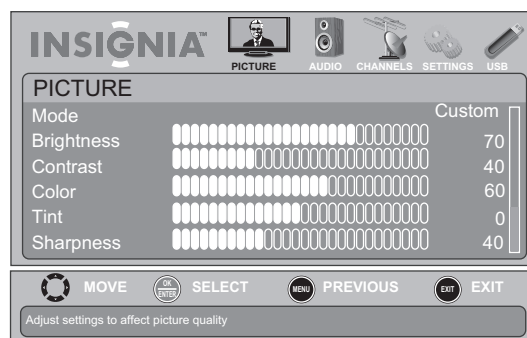
- Press **MENU**. The on-screen menu opens.



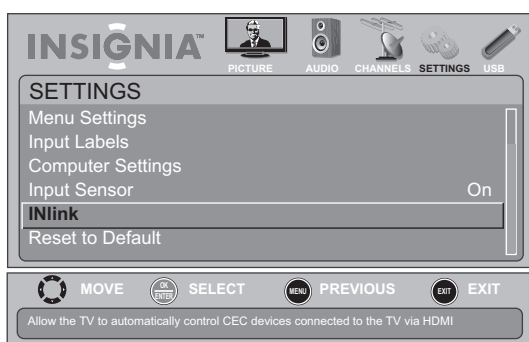
- Press **▲** or **▼** to highlight **Device Auto Power Off**, then press **ENTER**. A menu opens.
- Press **▲** or **▼** to select **On** (turns off the connected device when you turn off your TV) or **Off** (does not turn off the connected device when you turn off your TV).
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

To turn TV Auto Power On on or off:

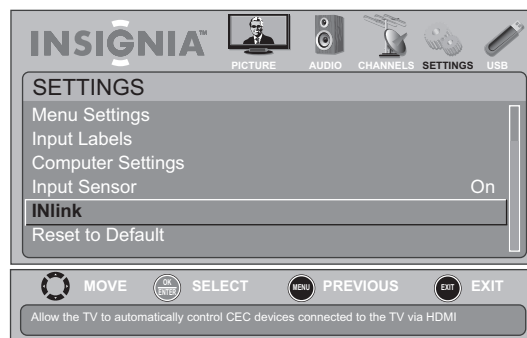
- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens.



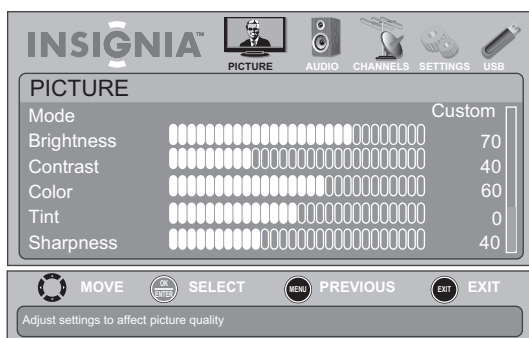
- 3 Press **▲** or **▼** to highlight **INlink**, then press **ENTER**. The **SETTINGS-INlink** menu opens.



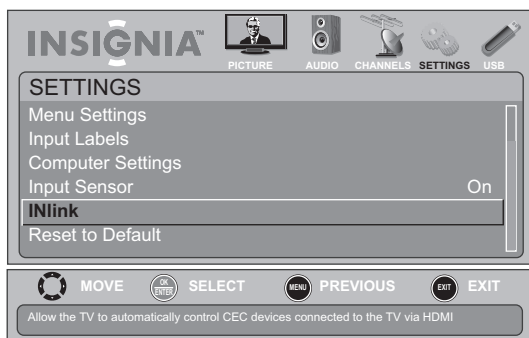
- 4 Press **▲** or **▼** to highlight **TV Auto Power On**, then press **ENTER**. A menu opens.
- 5 Press **▲** or **▼** to select **On** (turns on your TV when you turn on the connected device) or **Off** (does not turn on your TV when you turn on the connected device).
- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

To display a list of INlink-compatible devices:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens.



- 3 Press **▲** or **▼** to highlight **INlink**, then press **ENTER**. The **SETTINGS-INlink** menu opens.



- 4 Press **▲** or **▼** to highlight **INlink Device Lists**, then press **ENTER**. A list of the HDMI CEC-compatible devices you have connected appears.
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Notes

HDMI cables must be used to connect HDMI CEC-compatible devices to your TV.

The connected device's HDMI CEC feature must be turned on.

If you connect an HDMI device that is not HDMI CEC-compatible, the **INlink Control** option does not work.

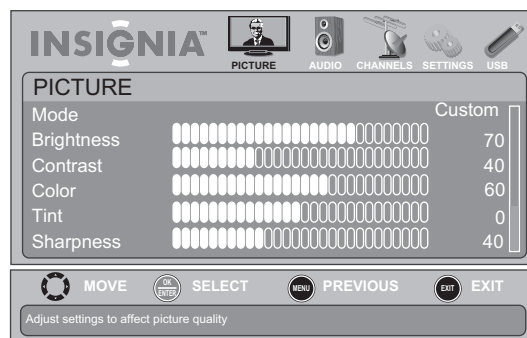
Depending on the connected HDMI device, the **INlink Control** option may not work.

Restoring settings to the defaults

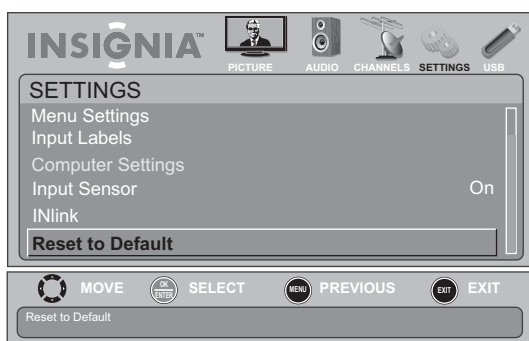
When you restore default settings, all the settings you have customized (except the password and parental rating) are reset.

To restore settings to the defaults:

- 1 Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**. The **SETTINGS** menu opens.



- Press **▲** or **▼** to highlight **Reset to Default**, then press **ENTER**. A confirmation box opens.
- Press **◀** or **▶** to select **Yes** (to reset) or **No** (to not reset), then press **ENTER**.
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Using USB

Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

You can connect a USB device to your TV to view compatible JPEG pictures.

Notes

- Never remove the USB device or turn off your TV while viewing JPEG pictures.
- We recommend that you back up the data on your USB device.
- The JPEG picture viewer only supports JPEG format images (with ".jpg" file extensions) and not all JPEG files are compatible with the TV.

Switching to USB mode

To switch to USB mode:

- Make sure that you have connected the USB device to the USB port on the back of your TV.
- Press **INPUT**. The **Input Source** list opens.
- Press **▲** or **▼** to highlight **USB**, then press **ENTER**.

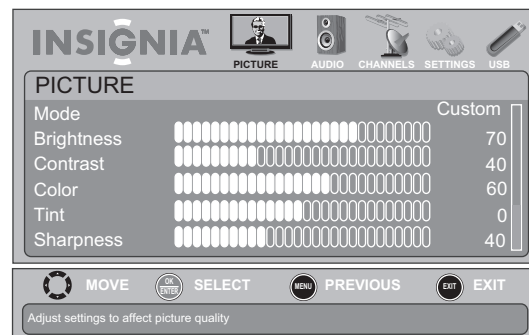
Note

When you connect a USB device to your TV, your TV automatically detects the device and displays the message "Do you want to show photos in USB?" Select **Yes** to switch to USB mode or select **No** to stay in the current mode.

Browsing photos

To browse photos:

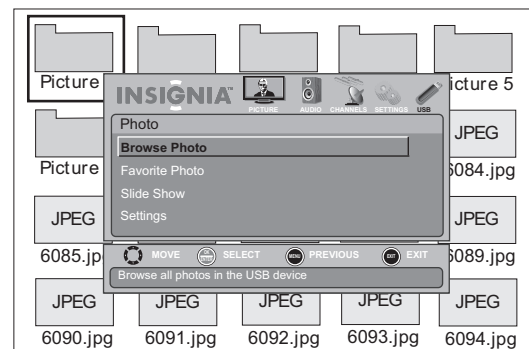
- Press **MENU**. The on-screen menu opens.



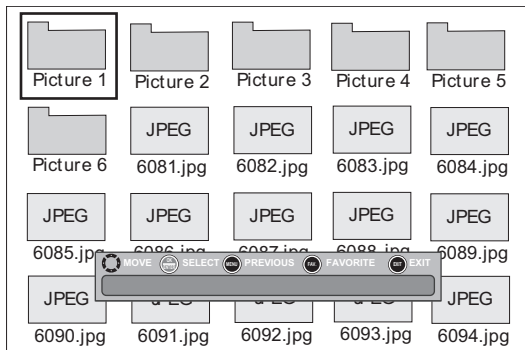
- Press **◀** or **▶** to highlight **USB**, then press **▼** or **ENTER**. The **USB** menu opens with **Photo** highlighted.



- Press **ENTER**, then press **▲** or **▼** to highlight **Browse Photo**.



- 4 Press **ENTER**. The screen displays folder names and photo files stored on the USB device in a thumbnail index with the first photo or folder highlighted. A control bar appears at the bottom of the screen.



- 5 To navigate the thumbnail index screen, press:
- **▲ ▼ ◀ ▶** to browse through the files and folders.
 - **ENTER** to view a highlighted photo full-screen or open a highlighted folder.
 - **MENU** to open the *USB* menu.
 - **FAVORITE** to add or remove a photo from the favorite photo list. A heart appears on a photo that has been added to the favorite photo list.
 - **EXIT** to clear the the control bar.

When a photo is displayed full-screen, a control bar appears at the bottom of the photo. The control bar appears when any button is pressed, and disappears automatically if no button is used within 10 seconds. The file name, picture resolution, size, and date are displayed on the bottom of the control bar.



To navigate on the photo screen, press:

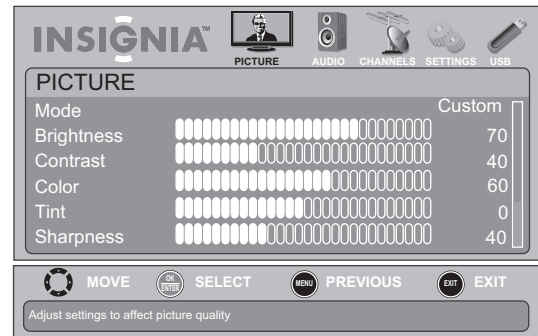
- **◀ ▶** to go to the previous photo.
- **▶ ▼** to go to the next photo.
- **ENTER** to rotate the photo clockwise.
- **ZOOM** one or more times to enlarge the image by 1x, 2x, 4x, or to fill the screen (Fill). If arrows appear in Zoom mode, you can press **◀ ▶ ▲ ▼** to pan the photo.
- **EXIT** to return to the thumbnail index.
- **MENU** to go to the *USB* menu.

Viewing favorite photos

After you created your favorite photo list, you can browse among your favorite photos quickly.

To view favorite photos:

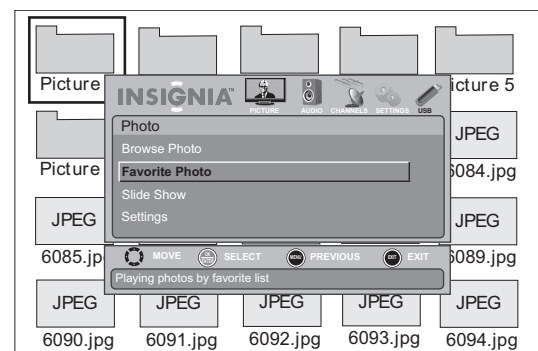
- 1 Press **MENU**. The on-screen menu opens.



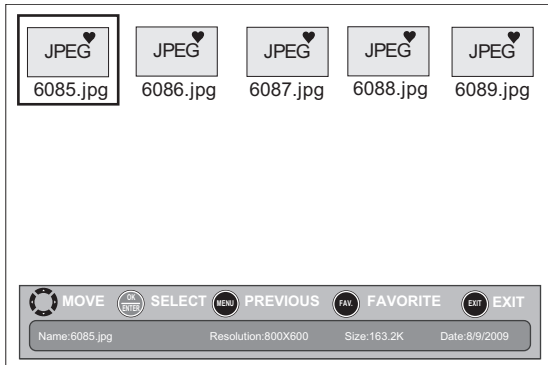
- 2 Press **◀ ▶** to highlight **USB**, then press **▼** or **ENTER**. The *USB* menu opens with **Photo** highlighted.



- 3 Press **ENTER**. The *Photo* menu opens.



- 4 Press **▲** or **▼** to highlight **Favorite Photo**, then press **ENTER**. A thumbnail index of your favorite photos opens with a control bar at the bottom of the screen.



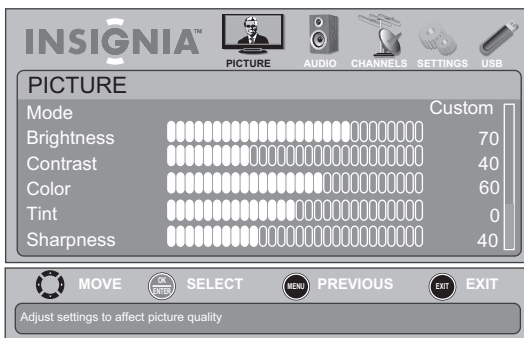
You select photos and navigate on the photo screen in the same way you do when you are browsing through photos. For more information, see "Browsing photos" on page 34.

Viewing photos in a slide show

You can view your photos in a slide show.

To view photos in a slide show:

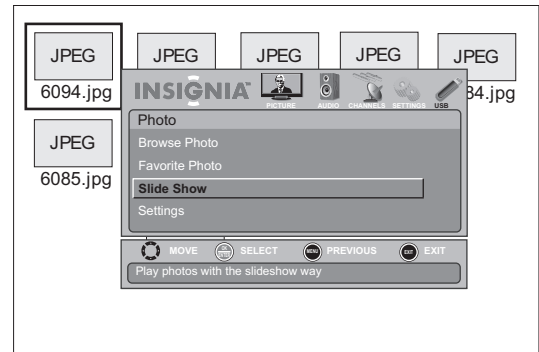
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **USB**, then press **▼** or **ENTER**. The **USB** menu opens with **Photo** highlighted.



- 3 Press **ENTER**. The **Photo** menu opens.



- 4 Press **▲** or **▼** to highlight **Slide Show**, then press **ENTER**. A slide show starts with the first photo in the current folder.

A control bar appears at the bottom of the photo. The control bar appears when any button is pressed, and disappears automatically if no button is used within 10 seconds. The file name, picture resolution, size, and date are displayed on the bottom of the control bar.



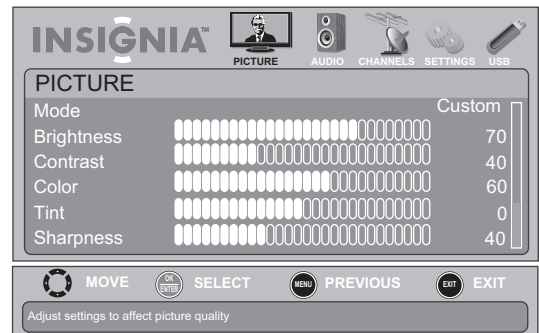
- 5 To control in the slide show, press:
- **ENTER** to pause or start the slide show.
 - **EXIT** to exit the slide show and return to thumbnail index.
 - **MENU** to go to the **USB** menu.

Customizing slide show settings

You can customize the slide show settings, including **Repeat**, **Shuffle**, **Speed**, and **Transition**.

To customize slide show settings:

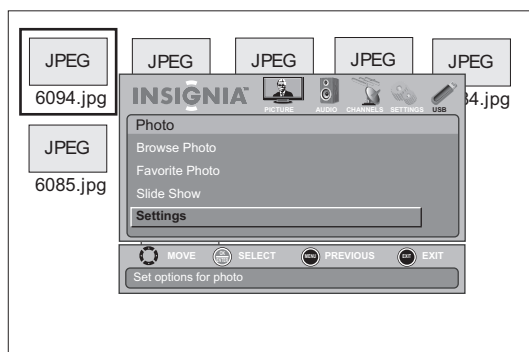
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press ◀ or ▶ to highlight **USB**, then press ▼ or **ENTER**. The **USB** menu opens with **Photo** highlighted.



- 3 Press **ENTER**. The **Photo** menu opens.



- 4 Press ▲ or ▼ to highlight **Settings**, then press **ENTER**. The **USB-Photo Settings** menu opens.



- 5 Press ▲ or ▼ to highlight an option, then press **ENTER**. You can select:
- **Repeat**—Repeats the slide show when it reaches the end. You can select **On** or **Off**.
 - **Shuffle**—Displays the slide show photo in random order. You can select **On** or **Off**.
 - **Speed**—Sets the amount of time a photo is displayed before the slide show moves to the next photo. You can select **2 Sec**, **4 Sec**, **6 Sec**, or **8 Sec**.
 - **Transition**—Selects a transition effect when moving to the next file in the slide show. You can select **None**, **Fade to Black**, **Vertical Wipe**, **Horizontal Wipe**, or **Random**.
- 6 Press **EXIT** to close the menu.

Maintaining

- Clean the TV cabinet with a soft, dry cloth. If surfaces are extremely dirty, slightly dampened the cloth with lukewarm water.
- Clean the TV screen with eyeglass cleaner. Never use alcohol, paint thinner, or benzene.
- Before using chemically treated cloth, read the instructions that came with the cloth.

Troubleshooting

Caution

Do not try to repair your TV yourself. Refer all servicing to qualified service personnel.

Note

If the problem is not solved by using these troubleshooting instructions, turn off your TV, then turn it on again.

Video and audio


Problem	Solution
No picture or sound (the screen is not lit).	<ul style="list-style-type: none"> • Make sure that the power cord is plugged into a working power outlet. The power indicator on the front of your TV will be lit. • Press ⏻ (power) to turn on your TV. • Try another station. The problem may be with the current station.
Dark, poor, or no picture (the screen is lit). Sound is good.	<ul style="list-style-type: none"> • Make sure that the correct picture mode is selected. For more information, see "Adjusting the TV picture" on page 17. • Adjust the brightness. For more information, see "Adjusting the TV picture" on page 17. • Make sure that the antenna, cable TV, or satellite TV is connected correctly. For more information, see "Connecting an antenna or cable TV without a cable box" on page 9.
No color, picture is dark, or color is not correct.	<ul style="list-style-type: none"> • Adjust the color saturation. For more information, see "Adjusting the TV picture" on page 17.
Only noise (snow) appears on the screen.	<ul style="list-style-type: none"> • Make sure that the antenna, cable TV, or satellite TV is connected correctly. For more information, see "Connecting an antenna or cable TV without a cable box" on page 9. • The digital signal may be weak. Check the digital signal strength. For more information, see "Checking the digital signal strength" on page 22. • Try another station. The problem may be with the current station.
Picture has dotted lines or stripes.	<ul style="list-style-type: none"> • Make sure that the antenna, cable TV, or satellite TV is connected correctly. For more information, see "Connecting an antenna or cable TV without a cable box" on page 9. • Move your TV away from noise sources, such as cars, neon light, or hair dryers.
Picture has double images.	<ul style="list-style-type: none"> • Use a highly directional antenna or change to cable or satellite TV.
Picture has a few dark or bright spots.	<ul style="list-style-type: none"> • A few dark or bright spots on an LED-LCD TV is normal. This does not affect the operation of your TV.

Problem	Solution
Good picture, but no sound.	<ul style="list-style-type: none"> • Increase the volume. • Press MUTE to make sure that the sound is not turned off. • Make sure that the audio mode is set to STEREO or MONO. For more information, see "Selecting the audio mode" on page 19. • Make sure that headphones are not connected to your TV. When headphones are connected, sound from the TV speakers is muted.
Audio noise or static.	<ul style="list-style-type: none"> • Move radio frequency equipment, such as cell phones, away from your TV.

Remote control

Problem	Solution
Remote control does not work.	<ul style="list-style-type: none"> • Make sure that the remote control batteries are installed correctly. For more information, see "Installing remote control batteries" on page 7. • Replace the remote control batteries. For more information, see "Installing remote control batteries" on page 7. • Make sure that the power cord is plugged into a working power outlet.
Remote control does not control connected HDMI devices.	<ul style="list-style-type: none"> • Make sure that the INLink Control option is set to On. See "Using INLink" on page 31. • Make sure that the HDMI CEC control is turned on for the connected device. • Make sure that the connected HDMI device is CEC-compatible.

General

Problem	Solution
Cannot turn to one or more channels.	<ul style="list-style-type: none"> • The program may be blocked by parental controls. For more information, see "Blocking unrated TV" on page 24 or "Setting parental control levels" on page 25. • The control buttons on the front of your TV may be locked. For more information, see "Locking control buttons" on page 23. • The channel may have been deleted from the channel list. You can still tune to the channel using the number buttons. For more information, see "Selecting a channel" on page 16. You can also add the channel to the channel list. For more information, see "Hiding channels" on page 20.
Password is lost.	<ul style="list-style-type: none"> • On the <i>Parental Controls</i> menu, enter 9999 as the password, then set a new password. For more information, see "Setting or changing the password" on page 23.
Cannot access some settings or options.	<ul style="list-style-type: none"> • If a setting or option is grayed out, it is not available in the current mode.
TV cabinet creaks.	<ul style="list-style-type: none"> • When you are using your TV, the temperature inside the cabinet increases. This causes the cabinet to creak. This is not a malfunction.
Buttons do not work.	<ul style="list-style-type: none"> • Unplug the power cord, wait a few seconds, then plug the power cord back in and turn on your TV.
Button labels are not lit on the front of the TV.	If your TV is turned on and the button labels on the front of your TV are not lit, press any button except  to light the button labels. Then press the button you want. Button presses must be within 10 seconds of each other.

Specifications

Design specifications are subject to change without notice. Dimensions and weight specifications are approximate.

TV type	LCD
TV panel	19-inch TFT LCD 22-inch TFT LCD
Channels	VHF: 2 - 13 UHF: 14 - 69 CATV: 1 - 125 CADTV: 1 - 135 DTV: 2 - 69
Audio multiplex	BTSC system
Audio output	3W × 2
Power requirement	AC 120 V, 60 Hz
Power consumption	25 W (19") 30 W (22")
Dimensions	19-inch 18.1 × 13.1 × 5.51 inches (460 × 333 × 140 mm) 22-inch 20.83 × 14.65 × 5.51 inches (529 × 372 × 140 mm)
Weight	19-inch 7.1lbs. (3.2kg) 22-inch 8.38 lbs. (3.8 kg)
Input terminals	HDMI (3) Component video with L/R audio (1) Composite video with L/R audio (1) VGA with audio (1) Antenna (1) USB (1)
Output terminals	Headphone jack (1) Digital audio (1)

Legal notices

FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply within the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC warning

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

Cables

Connections to this device must be made with shielded cables with metallic RF/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Canada ICES-003 statement

This Class B digital apparatus complies with Canadian ICES-003. Standard Television Receiving Apparatus — Appareil de réception télévision ordinaire, Canada BETS-7 / NTMR-7

HDMI



HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Audyssey

Audyssey Dynamic Volume™



Energy Star



To meet Energy Star requirements, keep TV settings at the factory default settings.

SRS TruSurround HD



is a trademark of SRS Labs, Inc. TruSurround HD technology is incorporated under license from SRS Labs, Inc.

SRS TruSurround HD™ creates an immersive, feature-rich surround sound experience from two speakers, complete with rich bass, high frequency detail and clear dialog.

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The software included in this product contains copyrighted software that is licensed under the GNU Public License (GPL). A copy of that license can be found below. If you require additional information or you wish to receive the complete Corresponding Source Code, please call the Insignia support line at 1-877-467-4289.

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This product contains software that is subject to the GNU Public License Version 2 (GPL2). You can obtain a copy of the GPL License from

<http://www.gnu.org/licenses/old-licenses/gpl-2.0.html>.

If you require additional information or you wish to receive source code, please call the Insignia support line at 1-877-467-4289. The source code is available for a period of three (3) years from the date of the distribution of this product by Insignia.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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END OF TERMS AND CONDITIONS

Two-year limited warranty

US and Canada Markets

Definitions:

Insignia Products ("Insignia") warrants to you, the original purchaser of this new Insignia-branded television ("Product"), that the Product shall be free of defects in the original manufacturer of the material or workmanship for a period of two (2) years from the date of your purchase of the Product ("Warranty Period"). For this warranty to apply, your Product must be purchased in the United States or Canada from a Best Buy or Future Shop authorized dealer of Insignia brand products only that are packaged with this warranty statement.

How long does the coverage last?

The Warranty Period lasts for 2 years (730 days) from the date you purchased the Product. Your purchase date is printed on the receipt you received with the Product.

What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Insignia repair center or store personnel, Insignia will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Insignia and are not returned to you. If service of Products or parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Insignia Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

How to obtain warranty service?

If you purchased the Product at a Best Buy or Future Shop retail store location and your television Product has a screen size of less than 37 inches, please take your original receipt and the Product to any Best Buy or Future Shop store. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased the Product from a Best Buy or Future Shop online web site, mail your original receipt and the Product to the address listed on the web site. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging.

To obtain in-home warranty service for a television with a screen 37 inches or larger, in the United States call 1-888-BESTBUY, Canada call 1-866-BESTBUY for Future Shop call 1-800-663-2275. Call agents will diagnose and correct the issue over the phone or will have an Insignia-approved repair technician dispatched to your home.

Where is the warranty valid?

This warranty is valid only to the original purchaser of the product in the United States and Canada at Best Buy or Future Shop branded retail stores or websites.

What does the warranty not cover?

This warranty does not cover:

- Customer instruction/education
- Installation
- Set up adjustments
- Cosmetic damage
- Damage due to acts of God, such as power surges
- Accident(s)
- Misuse
- Abuse
- Negligence
- Commercial purposes/use, including but not limited to use in a place of business or in communal areas of a multiple dwelling condominium or apartment complex, or otherwise used in a place of other than a private home.
- Modification of any part of the Product, including the antenna
- Plasma display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).
- Damage due to incorrect operation or maintenance
- Connection to an incorrect voltage or power supply
- Attempted repair by any person not authorized by Insignia to service the Product

- Products sold "as is" or "with all faults"
- Consumables, including but not limited to batteries (i.e. AA, AAA, C etc.)
- Products where the factory applied serial number has been altered or removed
- Loss or Theft of this product or any part of the product

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Contact Insignia:

For customer service please call 1-877-467-4289

www.insigniaproducts.com

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Mexico Market

PLACE STICKER OF PRODUCT MAKE & MODEL HERE

DATE OF PURCHASE: _____

Definitions:

Insignia Products ("Insignia") warrants to you, the original purchaser of this new Insignia-branded television ("Product"), that the Product shall be free of defects in the original manufacturer of the material or workmanship for a period of two (2) years from the date of your purchase of the Product ("Warranty Period"). For this warranty to apply, your Product must be purchased in Mexico from a Best Buy authorized dealer of Insignia brand products only that are packaged with this warranty statement.

How long does the coverage last?

The Warranty Period lasts for 2 years (730 days) from the date you purchased the Product. Your purchase date is printed on the receipt you received with the Product.

What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Insignia repair center or store personnel, Insignia will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Insignia and are not returned to you. and parts charges. This warranty lasts as long as you own your Insignia Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

How to obtain warranty service?

If you purchased the Product at a Best Buy retail store location and your television Product has a screen size of less than 37 inches, please take your original receipt and the Product to any Best store. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased the Product from a Best Buy a online web site, mail your original receipt and the Product to the address listed on the web site. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging.

To obtain in-home warranty service for a television with a screen 37 inches or larger, in Mexico call 01 800-433-5778. Call agents will diagnose and correct the issue over the phone or will have an Insignia-approved repair technician dispatched to your home.

Where is the warranty valid?

This warranty is valid only to the original purchaser of the product in Mexico at a Best Buy branded retail store or website.

What does the warranty not cover?

This warranty does not cover:

- Customer instruction/education
- Installation
- Set up adjustments
- Cosmetic damage
- Damage due to acts of God, such as power surges
- Accident(s)
- Misuse
- Abuse
- Negligence
- Commercial purposes/use, including but not limited to use in a place of business or in communal areas of a multiple dwelling condominium or apartment complex, or otherwise used in a place of other than a private home.
- Modification of any part of the Product, including the antenna
- Plasma display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).
- Damage due to incorrect operation or maintenance
- Connection to an incorrect voltage or power supply
- Attempted repair by any person not authorized by Insignia to service the Product
- Products sold "as is" or "with all faults"

- Consumables, including but not limited to batteries (i.e. AA, AAA, C etc.)
- Products where the factory applied serial number has been altered or removed
- Loss or Theft of this product or any part of the product

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Best Buy Mundo E

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If the power cord has been damaged, it should be replaced by the manufacturer, your service provider or qualified personnel to avoid risks.

Si el cordón de alimentación es dañado, este debe ser remplazado por el fabricante o su agente de servicio o por personal calificado para evitar el riesgo.

www.insigniaproducts.com

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Se incluye el manual. Favor de leer este manual antes de usar el producto.

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